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Jack Lang of Perihelen with transputer add-on board

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Firezone from PSS and CCS' Overford leature in this month's investigation of the latest strategy softwore - whatever you dish out, these games won't take it lying down

Are you a competitor or a collaborator? Do you yearn to knock the stuffing out of your mates in International Karate, or to fight side-by-side in likari Warners? ACE joins the scrum with an authoritative code to the best in multi-player action



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Amstrad 16-bit machine - the rumours flourish... Major changes for US Gold programming policies. Telecomsoft 'relaunch' Bye-bye Ariola helio Execet, Mandann, FTL

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Mark Jenkins addresses himsell to some of your MIDI problems

GAMEPLAY

The most authoritative reviews the latest games, and the world's most comprehensive rating system This month, Dungeon Master and Olois cause a 16-bit sensation



Farmo Formale Clas - In the site, but definitely not the pits.



to pest risphants, just deasily pirk worms in state of the art

Pac-who? Haven't wo seen this running jumping, pill-gothbling, ghost-chasing maze wandering globsile somewhere before? What's he doing around in 19M2 Find old bere

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Page 15 in fis you if you're won an ST or one or 24 other moulthwatering priese. And if you heren't got a card, find out on page 15 how to get your own unique chance at winning some of the best prizes around, svery month in ACE.

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Second of ACE's occasional lorays mio the world of play-by-mail. This time we check out the fallest PBM convention in London.

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Wotte lotte maps. Feast your eyes on the hideous secrets of Terramer and Platoon plus ST pokes for Backlash, Black Lamp and more besides...

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The infamous AGE prize puzzle glus a crossword and other bid-bits to furnow your brow. Come on now you didn't think we were going to lat you read this magazine and not DO anything did you?

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Don't sak us what's on them — you wrote the copy submitted the advanture contacts, demanded the penpals offered the software and advertised the user groups. We just gave you the pages, and they mail varies.

Oi!

...You! This is the ACE Team spaaking. Wn wanna hava a few words with you, niright?

We just thought we'd like to tell you that we recken this magazine is the **best on the shalf** Yeah, we know, you've heard it all before, but just for the record, we're going to tell you **WHY** we think it's the best.

First off, it's aimed at a **different type of reader**. Someone like you, someone with **brains**, with **discrimination**...not someone with **nappy-msh**, but a real man-about-town who **knows what hn wants** in a magazine.

You want in-depth, authoritative reviews, written by people who runlly know a good game when they see one, and have the guts to speak out when they come across a stinker

You want a rnting system that leaves no loop-holes, that tells you which game you'll still be playing in a ynnr's timn, and which one will end up in the bin.

But you want MORE than just games, games, and more games...

You wan! in-depth featurns on the white-hot cutting edge of computer entertainment... You want the skills that will turn your monitor into a blistnring display of pixel mastery. You want the data that will transform your humble synth into a stath-of-the-art muse machine.

You want the naws.. the pokes the computitions ...the previews..the special offers ..the puzzles .the buyers' guidns

You want thn Jot - and we give it to you...

So don't histate – take this mag to the counter right now. It's the latest issue of Britan's finstnst moving new micro mingaxinn, and it's not going to be on that shelf for long.

• The ACE Team

ADVANCED COMPUTER ENTERTAINMENT

Future Publishing 4 Queen Street BATH BA1 1EJ

= 0225 446034 Fax 0225 446019 Telecom Gold84:TXT152 Prestel-Micronel 045 874 Co-editors Petar Connor Stave Cooke Raviews Editor Andy Witton Production Editor Rod Lawton Staff Writer Andy Smith Art Editor Trevor Giftom

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Beyond today's technology... ATF... Lockheed's Advanced Tactical Fighter. Climb aboard the aircraft of the cantury and launch across anamy tarritory. Attack or evede anamy forces by hugging the 3-D relief tarrain.

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DIGITAL
INTEGRATION
Watchmoor Trads Carbin,
Watchmoor Trads Carbin,
Carbonetery, Surray
Gill 5 and

ATARI COIN-OP SENSATION

A Midlende coin-op company has developed a revelutionery coin-op ercade consent that promises to close the gep between home computer software and the arcades.

East Mitheds Listous have producted a calamist based on the Asia (and a calamist based on the Asia (S), but unlike the Arcada, Ameya based system, which uses Ameya based system, which uses along boards and play in chips the EMIsystem leads segment from dock Asia a result, almost any ST program can be converted in a rainter of hours to true on the marketine and almostly EMI. These agoing July Golds Therentor or remement relations Other tites uncer registration solvers. Other tites uncer registration solvers are all registration solvers and approaches and proposation solvers and ST presidents.

Our system is miles better than the Audian set opt claimed angineer. Alan Nelson, They still use of ROM boards which are expensive and can be damaged very easily Using the dark system we can modify existing software very racely and we've trested the system for several months without any problems?

EML also claim that their display will be befor than the competition, since they is using a 21 inch hieres Hartiers somen as opposed to the TV tobes still in use by other manufac-

REVOLUTION

I the Intec Video System (as it's

called at all its cracked up to be, it could revolutionise the relationship between the arcades and the indire computer industry. Software houses will be able to supply their current hits to EML who by adding a short routine can make if compatible with the soci

What's more, EMI, intend to infilinate solbware of all limits on Permethens, including aims a loop. We've developed a pyelent, Niscon, asy, that allows the player to buy time on a semulation program in the same way that you buy leves in an articular pure Port direkt and by could be the message soon, with pub-goes shalling out 20th for a quick light invend the Bay with Field's Bay.

CHEAPER The distributors of arcade

machining are very keen," sad Nelson 'and our mechinies are chaspe – behaving 1200 and £1500 compatived to around £1900 for the Arcadia systems. What's more we can change the game on a machine in 20 seconds, and distribute the software on delige very easily. There a also a hope overseat market.

ACE will be playtesting the new system in the next few weeks in the meantme, there's no doubt that instant conver son to arcade format could have a huge impact on the software business. We'll containly do it again it it works out " said US Gold's Richard

The new infact Visito System - have somes strength into the arcades.



N

AMSTRAD - WHERE NOW?

"Il has going to get inte the mental, ha's gaing to have to be quick... botased Tim Chanty of US Gold. "Il has NOT doing something, he's mad Benard Department, he's we'd be very failness, into less doine, we'd be very failness, in a low de la la legal action... also is here of the random remarks, also is here of the random remarks, also is here of the random remarks.

overheard by the ACE learn over the last less weeks on the subject of Alan Sugar's much rumoured new 18-but machine Just Whal IS the state of the rumour these days? Is there REALLY anything cooking in Bomford? Or has Arristed, heaven forbid, turned is back on the ordertaliment market?

The latter view is supported by two main arguments. The first is that Antistratis profits are currently based largely on the sale of their amail busness computers, this second is the alleged difficulty of pating hold of new CPC machines. The heard hill slopped manufacturing CPCs atogether." remarked Ramberd's Patin Moreland, "cessdays whenever see try to get a morbrine we have to settle for the pating of the complex of the pating of pating pating

Mr Sugar has no doubt on that last point lifs not true he laid ADE White thating more CPG's than ever before 16x what about future comeniment to the entertainment industry? Nick Hirear, speaking lice Amutand points out that At the moment, the shull of our thorward in this computer business, and there is a whereit seen.

radines

First point of uncertainty Mr Hewer says games machines and not games computers

We have no intertion, he continued for lessening our grip on the games markel and have every intertion of lessening out leadership of d."

Second point, it doesn't lake an IO of serie 15 to see that simply terring out CPC machines is not going to keep Arnatizad on the culting edge of the computer market So what will they come up with? They haven't goin a track record for producting expension one'n points out Andrew Herscon, 'so the only timp (can think of et ain ST or Arniga clore.' Which is put what is lot of other people have said

Commodore would undoubledly

take Amstrad to court if the company attempted to produce an Amiga core* puller clone, but what about a licensed Amiga based console which wouldn't conflict so heavily with Commodore's

"That would be a different proposition, said our Commodore source to certainly an interesting idea."

It certainly is Amstrad sell the handware Commodore scoop this roy eless and line software houses sell more games. Whatever the answar, there's something in the air. Mean while, numour has all that Amstrad have decided to call the new machine a Sinchier.

1 can't comment on that We never talk about new products 1 counlated Mr Hower

•



ELITE GO BUDGET

No prepared for classic Ellis Idea including Commanda, America Marchia Staring to lumble not your legifier a bargain C1 99 in the next less montain. The company are nonwing non the budget amera, either with a riner labil, or through a third parry and with be producing many of there of this of this new low proces. "Write sall examining all the opposition sivilelle to sut," said company budget spokersmanrel the new or sill on the work of all on those will delive with delivers will delive will deli-

Carrynghile - years asser for £1.39

nniely be taunching a new label. All will be revealed by May or June."

revealed by May or June".

At this same time, the company are pushing hard mile this growing 16 bit market and they're particularly proud of ST Buggy Boy and Space Harner. With may fusic the budget move will enable this company to scoop some reviews that can be ploughed into development of more excepting to Privates ST.

TELECOMSOFT GRAB US BLOCK-BUSTERS

town Simulations, who produced up market, hriech condriven games such as The Uninvited and Deal for Mindscape in the Steles have set up a programming team in the UK and agned up with

Six titles are in the prpeires, including Days Vu 2 and a 'superbly animaled shoot emideed game set in the Wild West'.

Telecomsoft.

Suptimply licen on not plan to concentrate on such driven adventures in future, but mean to move the the scrade game areas. Wat be producing fast-action prophical arcide games to the ST Mac. To any active games to the ST Mac. To active games the things the service games the size of the ST Mac. The same will also appear thought we are will also appear thought we are will also appear to ordinate them outs said Jake Glover, Icom UK's managing directs or contract UK's managing directs.

Apparently from are planning to move all their games programming work to the UK, perhaps because costs here are lower. Meanwhite the American division is to move out of the infrastramment are and begin programming business software. Looks tike the Americans are waiting us to the fact that Europe, and the UK in particular, is where the action is nowadays ●

Statewards a delicious ison gene on the Nac Now they's next to came us "blacemask", and for more learners, loss.



CRAM YOUR FINGER ON THE DIAL

If you've got a modern and the software to go with it, Talemap and Compunet have both got next for you. Talemap and brought you Micronel Prestate online magazine for computing the title of the title on the title of the title on the title of the title o

Called Hotel California, the sarvice is open to anyone over 18 whots got the equipment to log on There's no subscription to ply you're charged for the time you spend online at between 25p and 38p a minute, with the cost added directly to your phore bill. For the

money you can access games, classified ads and a mail order service run by catalogue mogula Kays. The real hook of the service however, should be the open and You can meel strangers for an orline ohnway or conter with londs. What's more the system linis up with Microners Teletally service so you can swap computer minded barrier with any of its 20,000.

The service is fully operational move — just is rely your cornitive squip-mort lip 1200/75 revenible and dial codes 10 0900 – bod is buring run on a final bases for the next little months. One of the libragic Telematy hope to find out it is electric people are propared to pay 255 a mmufal for an online service. "Us not as unreasonable prind" claimed PR man Dave Resemblation You'd have to pay the same to use any 0806.

problem. In graphics the pricing is

BT's charging structure, and could prove to be the service's Achilles'

here!

Observation survivals are different with subsequence only but help we are all agranded to law in the world wide income only but help we are all agranded to law in the world wide income on the control of the most of the most could be on maxing quite or name for fixed on release, to the States where it was vende their first hebication? The world will be supplied to the control of the cont

Amiga or C64 owner .

TOGETHER WE STAND...

A national TV ad campaign to improve the 'spotty kid' image of computer entertainment was high on the agenda as the cmart of the industry poured into a fuxury Jersey hotel recently and backed the call for a new software publishers asso-

Since the demise of GOSH (Guld of Software Houses) there has been no effective representalive body for the companies who produce our games. That's bad news for all of us because the only way were gains to see computer cames maly take off is if the may ket can be expanded to support

expensive new projects. Everyone realises that 16-bit games can cost a packel to devolop, so unless there are more people to pay for them we can loss truly advanced computer entertainment goodbye

The good naws, then, is that those present - which included major players such as Elde, How son, and Electronic Arts - voted strongly in favor of e pilot study and the establishment of an erosnical tion that could give us e bit more street cred. Let's keep our fingers crossed that whoever's ploting the

study knows how to fly

TILT. BURN. AND FIRE...

New-look Telecomsoft budget tabel Silverbird ere on the vision of releasing ST Thrust, end ebout time loo The game's been mady for ages and it's good stuff - fast, sen silve and very tricky with four new planets companied to the 8-bit ver signs - so if could have been a more little earner over Xmas Bul even with a very reasonable £9.95 price tag it may not do so well now with the spectaculer Olds to fure till

burn-fire fans awey Not to warry Telecomsoft have a secret weapon in the form of

Zarch. Rambird's ST and Amiga versions of this classy lift's burn 3D shool-em-up won't be out until the summer, and probably won't even be called Zarch - current working title is Bird of Prey - out as men lioned in our 'Sixoon Spires' feature (page 31) the ST version is already looking very good indeed. Fers of interesting and unusual control methods (not to mention amazing graphics) should start forming an orderly quaue now - and let's hope this gree doesn't get held up for six months or so!

VERMINATOR - BLACK LAMP **EXTERMINATOR?**



One of the problems with 16 bit

software is spending lots of money on developing games with mege zanazz graphics, and ending up with sub-8-bit gameolov Games like Dungeon Master offer hope for the future, but we're still cetting offernos Ika Firebird's Black Legup which looks sturning but letts down sensusly on the playability stakes.

Nigel Brownjohn, designer all Rambro's Verminator (programmed by Chris Hirrsley), has strong views on this At first sight, Verminator looks disturbingly like another Black Lamp - fanlastic graphics, but apparently very little to do expant run, sump, and zep. These's so much more to it than that," opuniors the confident designer. This game is going to be a Black Lemp letter Basically you have to set up a sucprestul business as e 'verminator' That means either going around destroying pests and working your way up the ladoer, or you can try ather methods

Whel other methods? Well you could go to the banks and borrow lots of money, or you could go to The Mob-and borrow even more money You could even go gamplins. Trouble with having lots of debts, however, is that the vanous institutions will get stroopy if you don't pay up, and start sending luller droids after you

Verminator is due out in May watch out for the definitive ACE review @



ST Zarch, also Bird of Proy Remonitor, you see it here from

IN BRIEF...

BT BUY BO

Bo Jangeberg, the programmer who tholled Spectrum owners with the isometric adventure Fairlight three years back, is now working on his fest 16-bil atte los Telecompott. A new Spectrum atte. Resolution is also under

AUF WIEDESEHEN, ARIOLASOFT

After three years this side of the North Sea, German cames house Anotasoft have guiled out of the UK software market. Apporting to Anota an impression on the market - this despite some great games like Deec systoms, Red LED and They Stole a Million

Ill you were looking out for those Mapic Bytes tries that Anotasoft were planning to publish over here, don't despair. Green'in now have UK nghts to the games, with the first of them - Vamoura's Empire reviewed This issue. Stay tuned for Paranoia, The Pink Penther end others in the very near future

SYDNEY CLAIMS

Since their management buy-out, former CRL budget label Power House have signed a publishing deal with confusingly named Varicouver based games programmers Sydney Development Corporation. Under the deal, Power House get to self old Sydney titles like Spectrum Dambusters and C64 BC's Quest for Tyres Strangely their press release on the subject described the games as 'recently successful - how many years ago is 'recently' guys? - and came with a photo of Sydney Opera House Edher



972 5

1588

...for advanced computer entertainment, that le Full-price software houses need to spend longer developing garries to that the resulting products are better Don't just take our word for it listen to the software houses themselves. At the Phytogo launch a couple of months ago Ocean book David Ward explained how his firm would be concentrating their efforts on lewer

Irles in order to raide the quality For one of the country's largest software houses to make that land of decision is good news but Octan aren't alone now games grants US Gold have followed surt. As product marketing menager Richard Tidsall explained. The year US Gold will have 20 mainline titles excluding compilations, compared with around 30 last year though there will also be sax Capcom conversions and 10 Ranbow Arts titles marketed and sold in their own right." This drop in output will allow an emphasis on Yone turned the names, he added. coupled with extensive playlesting and the best news of all for many ACE readers a 'massive livest ment' in products for 16 bil machines •

IN BRIFF...



TOWERING

TELECOMSOFT

ST Thrust, now sadly overshadowed by Minorsoft's excellent Oxis, was one of a host of new games recently on show at the top glithe Telecom Tower Other goodles included Stargfider if on the Arriga (versions due out in June or July), Verminator (see story else where), and Legend of the Sword a graphical adventure featuring e combination of meny-driven commands and text entry Star of the show however, was undoubtedly ner Command, showing it superb point 3D display shifting possis at an alarming frame rale

In the fobjed restaurant (no longer open to the public, alas) high above old London lown, Talecompalt also brandshed new logos by the Press 'Red Joho's and coughed up a taxish lunch for those present. After several plass es of who the assembled hacks began to wish the landscane around them would stay in one place - lunny thel, since the Tower only started to revolve AFTER the

welcomno drinks .



ACE co-editor Pete Couner looks more confident in the above out than he feels - not surprising pleasures of the high life with Major Wild Bill Stealey of Microprose came in for a little more than they bargamed for Plete took to the skies with the American all ace who clams to be an adviser to the Pentagon - and soon found himself lima, ending with a sharp pull up and a 3G dose of centralugal force Below you can see what he looked like afterwards - doing a good job of holding back his breakfast .



CASCADE RAF LICENCE

If you thought US Gold's people kcenning (Chartie Chaplin, Manlyn Monroe etc) was wacky how about the deal Cascade have just pulled off They've got the licence for an official Royel Air Force game It's nel and their dependents - that licence less paid go to the RAF Benevoleni Fund - and Cascade are pretty chulled too In the US market where Cascade Bohl sims Are and Are 2 did so well the RAF are apparently regarded as an eitle force - and that makes them a very marketable pommodity indeed .

ACE ON THE ROAD...

First in a new series of roving mini-reports. This month we trip down to St Austall for a visit to MICRODEAL.

Microdeal are one of those soft ware houses who don't set up a big. hue and my about everything yet they've been around in the 16 be mar ket an long as arwone and have consistently turned out some of the most popular games for Amiga and ST Amazing to think



world heaters with software for the Dragon A trp to the pic tyresque seasade lown of St Austell m the Duchy of Comwall revealed Microdeal's history and what they ve not up their sleave for the rest of '88 Experty awared by 16-bit shool-

em up lans will be Goldhanner 2. Those who are fed up with the straightforward scroller will be releved to hear that it's not sucl the same old thing as it's predecessor. elements of Defender creek IT as you try to collect objects on your travels It's exceptonally tast and smooth scroling, and looks as though it will be very playable when released in a country of month's trace. You will also be able to buy a couple of scenery disk to prolong your interest - they should cost around E10

Leathernecks is Microdeal's long-swarfed combat game, reminscent of Akan Warners in its manic foling action. The main attraction here is the 4 way joystick adaptor



that Microdeal will be marketing for use with the game it plugs in the STs. parallel port and will probably cost around £5 00. While the idea is to cooperate you can actually shoot your buddles in the back, and hear them.

While all the above programs are for the ST Amiga owners should not despair; they'll all be converted. And this summer should see an Amiga version of Airball, the 3D srcade adventure that was such a big hit on the ST In fact John Symes says that Microdeal could well be moving away from the ST and toward the Amiga as a development machine over the coming months. It's a long way from the ZX30 their first programs were written for .

MOVES

STRIP POKER 2 (PLUS)

Il g's female pixel liesh yeu want, then Anco hope to have just the thing for you. There's a smidgeon of male pixel flesh too in the form of a small on-screen character that represents the player - lose a hand against someone like the delectable Sam and your en-screen regresen-



MERCULES

Spec £7 99cs £12 89dk Amstrad MSX

Ancient Greece is the setting for this arcade adventure that gives the player the chance to battle it out with skeletons and minotauxs in an attentol to complete 12 temble tasks Backdrops for the action Include Greek temples and Hades look out for it in the near future



STAR BAY

broe in May

£19,95dk This lest 'n' colourful shoot em up looks ever so sightly like that all lime classic Defender - and why not? If this is the sort of blast you're after, look out for it some-

MIGHT AND MAGIC

IRM 9C Fer Fantasy role-playing famatics, Might and Magic looks mighty inter esting. Yeu've gel 94 spells to cast. 250+ rtems to collect and use and over 200 monsters to deal with II that's net enough you'll have porans le cross, mountains to climb

Snippets

Up and coming titles for your micro.

CYSEKKNIGHTS

27 95cs E14 95dk Consider the name BT Smith does it mean anything special le you? If you answered yes then chances are yeu're a Spectrum er Amstrad wargamer who has enjoyed some of this man's earlier works - Vulcar, Amhem, Desert Sats It might come as something ela surpose to you then to learn that he's turned his altertien to arcade style games - et least for his next release Cyberkrights is a one er two player combatiplations game which comes as two separate programs. The first program allews



your character to ballie against other gladialors, while the second lats you re-design your own robots believe sending them Into battle against ofther another player's rabots or computer controlled bad dies. Cyberkrights should be avail. able now

STAR GGGSE

price undecided

The Steve Cain and Kenny Evenet due (Star Trek, Black Lamp) Inam. up again for this curiously inted space shoot-em up. Climb in your "goose" and ify through the tunnels and across the plans of Nom, blast on away. There's not much here to stretch the old grey matter, but it is good, clean homicidal lun, watch put for it soon

THE FLINTSTONES

F18 95dk Amiga Aleri ST Spec

£9 95cs £14 95dk

Barney Fred Wilma, Pebbles they re all here in this gammo adventure of classic proportions Fred's up to his neck in all sorts of trouble and it's up to you to sort it all out The 16 bit varsions should be available first with the 5-bit versions coming close behind

Birds of a Feather

STARGLIDER II

Having chased the Egron lorges away*from Noversa with a fee m ther ear. Jayson and Katra have volunteered (foois): le militaie the Foron-dommated planel of Mira and annihilate the Egron forces once and for all - not to mention destroy their beam projector which is trained on Novenia. Even getting to Mira is going to prova extremsly dil ficult, but you should be able to

attempt the highly unlikely "real

spon new" Starolider R Is oning to be the first game released to incorporate the Argonaut Disc Loading System - the same disc will run en both ST end Amga machines

RETURN TO GENESIS

This is the latest game from the author of Goldsvoner and Karate Kirl II - Steve Bak, Yeura fiving a craft over lentastic landscapes that ere swarring with aliens. There are obstacles le hinder your propriess that will require lots of skill to nego trade. The ST version should be here shertly with the Amiga vursion following shortly after



ST Legansial the award

LEGEND OF THE SWORD

24 05dk This new style of adventure game tells of the chronicles of Anar and of e magical sword and shield whose aura protected the inhabitants of Anar for many centuries it's enly because el an myasion by mutant humanoide under the command of The evil wizerd Suzar, that King Dar lus has summoned you and five others to find the enchanted sword and shield. The game boasts over 300 individual cameo illustrations which chance according to the situation - loade of intelligent characters to interact with and a highly flexible interpreter Legend of the Sword should find it's willy into your local stockest very soon.





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Test Drive is different - a new standard of driving simulation game. You're probably thinking "that's what they all say". So don't listen to us. Read what Commodore User and Popular

Computing Weekly said —
"never have I encountered a
game where the introductory
screens make me want to play
the game as much as this one".
C.U."...the graphics are out of
this world. For any car enthusias
the game is essential. P.C.W.





ACCOLADE

R I N G : 0 7 3 3 4 6 4 6 5



THE DGCF
Zeam year way brough a network of binnoise in year buggy arositing the cryclat becards that more to meet y bewere the Allens and burn that move constraint the circumference of the DGC AGE WIEDERSEED MONTY Lying low in Glimitac, your persecuted Henty Hole's what wishers have tasked to Totarranie', who are in het yezwit. Jain with the furces of MASS skillely consummed by Ma Trakker and constat the vilationar VENOM in their spent for decination of the world. Modern day sigliance Fault Kiringy sensits his own form revenge as the seam and for that tarracies the streets of New York. COCONUT CAPERS
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EAMGRAI TRILOGY let an age in which hos revered, a class of war. Thomsolves uport let their lives by a perfeccombut and disciplies SE-BOOMDES! Armed to the Insth, chaite suight of the students evertions, to enter it a hu go-lacky IIIv as a. B. .. B. .. It ... It ...













WIN AN ATARI ST!

Has your ACE card come up trumps this month? There are 25 great prizes.

For everyone who received a free ACE card on the cover of last month's magezine, here's another great apportunity to win prizes Using the same program as last time, just type in the 25 new 4-letter codes onnied on this page. If

the program converts one of them into your personal number, you're a winner If you missed last month's ACE, you can still get hold at an ACE card - see the box for details

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THE DECODER PROGRAM

access it have clearly pole one a free-deal number such as the pre-present on year ACE

Sichaled may be obtained by so sting a standard addition ACC May anomers file, in Queen Street, Start SA1 152

C64, CPC, ST, AMIGA version

10 FOR A=1 TO 25 INPUT "Code", B\$ 20 B=0 FOR C=1 TO 4-B=B-26 30 D-ASC(MID\$(B\$,C 1))

40 IF D>90 THEN D=D-32 50 B= B+D 65 NEXT C PRINT "Winning Number is B NEXT A

SPECTRUM version

10 FOR A+1 TO 25 INPUT "Code" BS 20 LET B₂0 FOR C₂1 TO 4 LET B₂B-26 30 LET D-CODE B\$(C TO)

40 IF D>90 THEN LET D+D 32 50 LET B. B.D. 65 NEXT C PRINT "Winning Number et B NEXT A

TYPING IN THE PROGRAM

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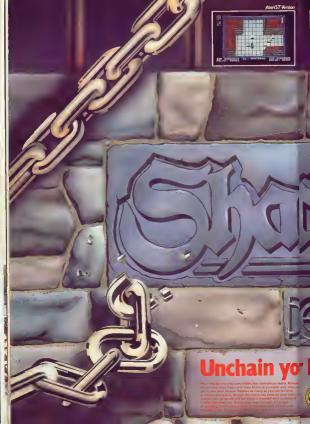
OTHER MACHINES The CSA CAC are known a standard Mondat Base on A push in work or more

RULES

\$Each four while book period in the magazine consequence is a winning 5 days

4. The codes must be correctly decoded using the program proted each mann in the \$ Damp let areas must be received by faci and on the pleany data at the foliast. The

57 Sur la sansucion evo mes har au segençiama a singe prox the public





UNDER STARTER'S ORDERS

The tension's mounting as these thoroughbreds prepare to get under way. Will the favourites turn out to be non-starters? If you're smart you'll check out their form and starting prices in a future issue of ACE – you wouldn't want to lose your shirt on a bob-tailed nag, now would you?



DARK SIDE Incentive

To produce a follow up to such an unpovertive and enthrolling game as Daller - ACE Rated 962 (PC Version) would be recarded by many as a tail order Incentrys rackon there've not the enswer though with Dark Side landscaping technique -Preescape developed for Driller and is set on Evalus other moon. Tricustad Your objective is to dustroy the grand weapon. Zephy: One which the Kelcus are planning to destroy Evoth with Watch out for the definitive ACE reverw in the near future



INTERCEPTOR Electronic arts

This action-packed flight sim for the Armigal gives the player six missions to complete in and around the San Francisco Bay area You've got two planes to choose between for the missions - on F18 Homet and on F16 Fatcon, both techning digitised engine and weapon sounds We've hoping to seview this one near month, and don't miss out









We have Ignition! Prepare to lake of





Tearing aut over the sec. This is a rear view of year place and the aircraft carri

This exploration/puzzle game for the ST is set in the 21st century and the player is in charge of six remote controlled robots The idea is to destroy the alien who's to be found at the care of a large rachoactive installation. You have to enter the installabon on the lowest level and clear the level of all radioactive conformation before you can occess the elevator and pro-

vay. out it to



ceed to the next level. Clear enough levels and you'll arrive of the core



INTERNATIONAL SOCCER

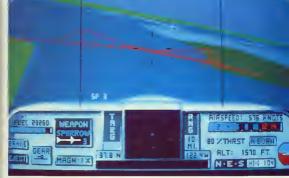
These are a couple of wonderful football games already available for the 8-bit machines, but they're no good to you if you own on ST or Amaga. Microdeal to the rescue This 16 bit soccer game gives the player the

chance to play under floodbohis or even in the wind and rain. Heviews will be looking off in next month's ACE - so grab yourself a season ticket and make sure you never miss a match.



Results for black off - lefts home the form don't invade the plack of the old of \$0 payers.



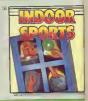


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rave reverses. A must for sports fam: Ali Hookep, Dars, Sowling and Ping Fong Note: C64 version does not include ping por Spectrum/Anstrad CPC/Commodore 64/126/ Atan XLXE cass 63 95 Andrad CPC/Commodore 64/128/ Atan XLXE disk £14 95 Amaga £24 95. Atain'ST £24 95 IBM-PC; 4'Compatibles £24 95 IBM-PC; 4'Compatibles £24 95 IBM-PC; 4'Compatibles £24 95

TASK III It really has to be played to

be believed, I'm hooked" – Commodore Use Commodore 64/128 Cass £9.95 disk £14.95

"if you liked Starglide: you'll love this gameit plays better and it's much more fun to play, overall it's a much better game' Atai 15T £24 95

puter animation can take my one of a number of farms nost of which mily on techniques guite similar to conventional anisicully processes giving the impression of movement in the picture plane (t.e. across the loca of the monitor). They're wadely used A number of existing programs allow easy manufulation of sequences, Film Director and Aggis Animator for the ST and Deluxe Video and Arass Animator for the Amiara are perhops the best known. These are really just and animation programs already available for 5-bit machines

The more advanced software now appearing uses a very different set of techniques to give on impression of movement much closes to receity. The technique used is casted Solid Modelling. This means that you can construct a computer simulation of any solid shape decide on colours surface tex tures and pattern position your viewpoint and light sources then render all of it on the computer screen. Once a scene is rendered it is a simple matter to move objects, view



These bearts bounce from right to left across the screen with strongh proclassor, dash, arm? They out?

Computer graphics on the home micro have become much more sophisticated over the past few years - but still basically static and in 2D.

Now, however, there's a new breed of animating software available for the 16-bit machines, and a new world has opened up for the graphics enthusiast. Brian Larkman looks at some of the latest techniques and packages.

GETTING NIMATED

points or lighting and render again, eventually producing a series of frames that can be used to produce the effect of opimotion.

These techniques can be broken down anto three mann processes, object editing, maken editing and rendering. All of the soft ware under review uses some combination of these to produce their end result though some of the packages are much more elegant and simple about it than others

OBJECT EDITING

The heart of any process aiming to simulate the real and solid world should be the object editor where the building blocks are constructed formed and welded together

The computer's view of the world is a senes of points (vertices) where lines (edices) ment to define enclosed flat surfaces (faces) Joined together in various ways these basic elements can form primitive solids of vary ing completely from three-sided paramids to cubes to multiple sided pseudo-spheres These 'princtive solids are the computer's building blocks. A range of them - including tings wedges and cones - is normally avail able to the object editor and usually constructed directly by the software from stored

es provides of the scene is constructed of lines - a 'ware-frame view. The solid model, with all hidden lines removed, takes some time to compute so for normal working the wireframe is sufficient. However, even the wireframe must be visualised in some way that makes editing and composition of the object

easy and straightforward. The conventional approach - used by describes and architects - is to provide four viewpoints or elevations a front elevation an end elevation a plan-facing say north east and down respectively - and an orthosed to suit the carcumstances to show the overall effect of the other three. Usually, this fourth view is for observation only. This approach is taken by both Cyber Studio and SculptAnimate (though Cyber can provide all four at once). The great advantage is that any point can be defined accurately using at least two of the views - though the profu son of images can be confusing initially

An attemptive is to provide a single vanable viewpaint of the whole scene either a conventional elevation or an orthocombic view. Less confusing, but not so easy to monipulate individual points with A sin ale verwoom is therefore better suded to a method that only enters ready made objects

Advanced Computer Entertainment 2 1

and rarely deals with individual points. This

is the case with Forms in Flight As well as the 'orimitive shapes an obtact editor needs to provide other tools

to manipulate objects and create a variety of shapes - including SPIN, to produce 'wuse-glass shapes EXTRUDE to drag 2D shapes such as letters into 3D and JOIN to glue simple shapes together. Once tormed it's necessary to move objects about the screen duplicate them change their scale or rotate them. For this the editor should possess a senes of tuno ple to operate Both the Arraga and ST can use 'gadgets' or 'scons on screen and drop down menus hidden at the top. A combination of these two methods seems to be the best way to manipulate objects within the editor in this respect only Cyber Studio (ST) and ScutptAnimate (Amigo)

can be used in an intuitive way

SCENE/MOTION EDITOR Once objects comprising a scene have been assembled their relative motion through the animation must be choreagraphed. This process is the make or break of computer animation, and it a computer is to make a task easier and quacker then the actual process of using the machine should be easy also

Like conventional animation, computer entmotion produces a senes of anages or frames that vary from one to another in a sequential way The simplest way to achieve this is to set up a science render it change a slightly then render the next scene until the animation is complete. This can be a very tedious process and the producers of an antimotion want tools that make it more dulomatic and they want them to be easy to use Several methods can automate the pro-

cedure - using a global scene key frame animation motion paths ablect/motion or tree hierarchies etc. Some of the software reviewed has some of these localities. Only SculatAnimate has all of them in an easy touse form Most of the other packages are either not very versable for animotion or are complicated and difficult to use

A global same is one preferably composed in the object editor that contains ALL the information required to produce a particular animation. It should include the starting position of all the obsects the observer comerus and lights For each moving object its path or at least its finishing point should be defened If the corners or lights move the extent of that movement should also be determined Ideally, all this information should be visible in the edit window using motion paths' not shown in the final render

If an object transforms during an asimation - a rubber ball compressing as it strikes a surface perhaps - this information connot be contained in a global scene Instead keyframe animation and inhetweening can be used. At 'key' places during the animation when the ball is at maximum compression



for instance – a scene is consposed and saved to disk. The first and last scenes might also be key frames. Once these have been defined the computer can automatically intermined the frames between

Thus better I might be of the bell of the port of its bounce forme 10 of the bottom you find the state of the bottom which it is most compressed and issume 20 of the bell boat of the top. The computer would compose each of the scenes for the bell compose each of the scenes for the scene 2 of with bell approach place to be the scene and post of the scene and post the scene and post the scene and post the bell composed that is not put in bell incompressed but just thoughing and it would then be the inherwiser stope believe 100 compression to some 100 posts.

Motion hierarchies are terrily bies of the parts of an object. Each part is numar separately so that a motion part out an entering but a motion part out bend independently but must follow a moving hand, which must ast but means paned to a moving an

RENDERING

Once the computer simulation of the scene has been constructed it can be rendered. This involves drawing all the objects in the first frome from the chosen viewpoint. Burns noted correctly and using the maximum number of colours. All the packages tested except Animator Apprentice and the Ray-Tracing modes of SculptAnimote did this he examining each face of each object in relabon to the bight source(s), deciding which shade of its pre-determined policus it should be showing then drawing that face Each started the drawing at the faces furthest front the viewpoint so that the last faces drawn would obscure earlier ones - a quick and effective form of hidden line removal

Anuncior Apprentice is unique in home computer animation in that if uses a "surface" reapphing fechnique to project any specially prepared flat artweak thickutang. HAM integres only a confoursed surface inseaning that or sounded object like a Color Can combe shown in full action. 3b SculptiAnimate

Colours on-screen

The Alan ST is from ally capable of atherwise with 16 colors or accordance at zone, as the basis of a range of sharlest across ethic earliers across ethic earliers across the earliers across exhibition of the earlier across exhibition of the earlier across the earliers across exhibition of the earlier across exhibition of the earlier across exhibition of the earlier earli

Most Amiga users are now aware that in his air-Mostly mode at 4,000 colours can be placed on-screen Rendering a surface using all these colours would allow smooth shading and full photographic colourstion of a some Ammator Appropriate and Sculphtelmate both lake advantage of lins mode in very defensive systems.

Delta Compression

Annual out set give all encours of one work, both with the CPU on dock 1, burneds in second works and the control of the CPU on the CPU of the

quickly

take another common lecharque from the computer graphics industry called any from large florid or each pixel or serverse is cell cultided by totaling at vary book into the sams sinche model. If a solid surface is nonched the colour lighting and surface lecture of the post at legiting and surface lecture of the post. Adjoining flat books are mode to look curved with a knoothing adjointing.

A new version of Forms in Flight due to appear soon should also use HAM, though in what form is not vet periods. Quantum Paint

them Balessott) has shown that it also possible to provide 4000 colours on the ST. The technical problems may prove insumnous-table but it seems of least possible that the ST could also be incode to provide full colour. This ST vary-tracingly would then be possible.



Centre Scotland

Hard this package appeared in this country a year ago it would have been hailed as a materipiece. As it strengt it stokes and letter to the property of the p

boen haded as a masterpace. As it stands it stoods it stocks out little from the current ctop of camandann packages partity because of the lacek of promotion and partity due to the lacek-lastite and boung monutod which doesn't over the reache or described or described or which doesn't over the reache or described or

what taken if you're in receive to clear said or the range of installine covidable. Nevertheloss, it is corpolite of an employ of excellent loss, it is corpolited of the said of one wife and in corresponded. The said of one wife of all the corpolited of the said of one wife of the corpolited of the said of the angle ordinary of the said of the expectable installent in see —some consistent guident or inner and to the more consistent preclass limitation in use —some consistent guident or inner and in time colors in the mental would have made the retentor much easier to use. Overall, the object adding tools are addeduced.

Global amenation is accomplished for each object by selecting it, then using menus to define the inovenient required during a particular block of frames A hierarchy of names can be established to ensue that if ingen follow hard follows arm. In other words groups of objects can be joined and

moved either together or separately Even the Camera' can be attached to this 'motion hierarchy' to produce pan and zoom. Keyforms animation and transformation of absects does not seem to be cossible.

coules, to des into mere to zer politicals:

2 4 8 8 to 4 2 actions can be used for sendency the front encycle should some primitions of the minimum. (Mo primition can consider the minimum.) (Mo primition can consider the minimum.) (Mo primition can be used to the source, sendency can take from a can be used to the source, sendency can take from a can be used to compensed so one did con held quality and large cammation have been held capital or large cammation. The two maps complete about studies and sendency can first them so common about a studiestic que that themse common about a studiestic programs and conversably, purtures from other point programs cammo the used on bedgepounds.



£195 - available from the Arrigs Centre

By far the quantest of the current crop or porchages its cultime. Mermit sheetin, describes it as on regardic aminoticy because it as one regardic aminoticy because it as one cally good with organic objects such on humans, plants and caranda surfaces and according to the product of the prod



Il shouldn't take long to have the ACE logo spirming round the right way - with a

is account pay and to have the ACE togo spirming round the right very - with a little patience and know-how idless of checaper) version - Animation Junior (ES2)

The fechalique used a surface mopping in be test sale to point detection waves of each object one first disminus using a displace or devived proclame (see mit Add mirror). Shall not object can be a lamb, imper flower, any hong — flowage flower, any many — flower, and point points— flow the memorials in bottom down into points. Buth was points— sale, so others buth, etc.— in flower points— sale, so others buth, etc.— in face, the resulting object cann for conceptions with all the other points in the last sale and the sale points and the sale points and the sale points are conceptions with all the other points in the sale positions are sale of the control of the sale points.

Like VicinsCorpe Animator Apprentice also uses undividual module programs - a thesh programs is started for such stape of the animation. Here the system seems to work reconnotibly well though its still not a very pelegom solution to the problem. Objects are



The logo plants in spin

edited in the Sculpt section than the various parts are put together as 'stick figure characters The local and global movements each character can undertake are then set using Motion and Director the action previewed using Rehectsal then the full animation ren dered with Record. The result can be viewed with the Display program Bockgrounds can only be included using a genlock

Overall the system seems to work teasonably well though to get good consistent results will take practice. For flowing animation of complex, textural forms in 3D this is probably the only package of its type in the world. Developed to better use the Amigu's system of gadgets and windows it would be superb. At present it is rather quirky



eat round now.

VIDEOSCAPE 3D

£119 - available from Precision Software Same of the tirst and best 3D animation demos for the Armon were produced by Allen Hostinos usino software he had written now available as VideoScape 3D - cursently amonast the best known package for the very reasons that Forms in Flight is not, in good presentation and packaging. While it is certainly true that Videoscope can produce excellent animations, it's not an easy or vecsattle package User thendly it is not Designed in a modular system supposedly easy to add more facilities to later, the system seems confusingly roughed and billy, especially in the initial object editing phase Obsects are created in one of three programs that hark back to MS DOS or SBC packages of three years ago simple lists of chaces with little or no lexiback. For any complex absects the only method available is by creating in the correct order (clockwise from ther visible ade) on impossible look for the

Motion and transformation of objects are both possible using key-frames and inhotweening but once again the motion files must be casca text files very laborious Foremound and background pictures can be added providing they are drawn using Videoscope's standard 32-colour pallete Frames are saved in Delta compressed lorm

Overall Videoscope 3D is intended for the advanced user in whose hands many fine animations have been produced. To get the best out of the package takes many hours of hand work and tedacus list writing especially in the object editing department The manual is recognitable but it has an uphill struggle against the complexity of the soft

CYBER STUDIO

Antic

289 95 - available from Electric Distribution So for, all the packages mentioned are for the Armga Better than any of them, certain ly in ease of use is Cyber Studio for the ST Originally developed as a CAD package the ablact editor CAD-3D 20 is an excellent example of the balanced use of windows icons and menus. The working interface shown in the illustration provides an easy-tounderstand drawing desk which does tend to waste a bill of space that could better be



Here we are, pround the right way.

used on a larger drawing area. The picture of SculptArumate's working areas shows that only very small padgets around the wapdows are needed Nevertheless CAD-3D is very easy to work with

The excellent menual takes the use in easy stages through each part of the program Micro Magac, Aegas and Hashnique could all learn something by reading this quide namely that most people could produce good animations on their home computer if they had a decent tutonal, even when the softwore is not very user friendly

Animation can be produced directly from within CAD-3D by saving each frame as it is rendered making changes on the hoof Smooth motion is crided by the use of 'multiple exposure' sequence files that display all positions of an object in motion as if frozen Frames are saved as Delia compressed files

More complex animations need the Cybermole assistation editing language that

comes with the package This provides a wade range of facilities including key frames and in-betweening special effects for dissolves and even sound effects. Unfortunately, these facilities are not readily available whout learning the Cybermate language access Nevertheless, Cyber Studio is one of the best animation packages on any machine It has been will developed and modules for more sophisticated effects are on they way Libraries of ready made parts such as spaceships robots and human skeletons are also available. Highly recommended, but note that it requires an ST 1040

SCULPTANIMATE 3D Byte By Byte

E110 (requires Sculpt 3D 989) - available from

fre Arriga Centre Scotland The best package was the last to be received and fortunately the last to be tested Once anyone with any interest in animation storts to use SculptAnimate 3D they will never want to use any other package it is quite simply the best piece of software so lar written for the Arraga - very powerful and

yet simple to use producting superb images The object editor has just three windows showing front side and plan views Around each are gadgets sample davelopments of the standard Armaa window tools allowing

selection, rotation and movement of objects plus panning and reaming of the view Pull-down menus provide all

other facilities Motion exiting takes place in the same windows as object editing by means of motion paths splines (smooth curve devices), key-frames and object/motion name hierar-

chies

Any resolution/number of colours con be used in rendering which can also be at lour levels of occura by wire-frame pointing (equivalent to VideoScape) snapshot (simple ray-trace) or photo (full ray trace) Foreground and background pic tures can be added All images (frames) can be saved separately as IFF flies and also dalta compressed so as to

be played back from RAM ScutptAnimate's only real fault is that there is no Undo. This does not seem to fivesent much of a problem .

N.B. A special thanks to Martin Lowa of the Amiga Centre, Sootland (031 557 4242) for providing software and invaluable technical advice.

The Verdict

For ST paners who want to tackle 3D arima tion, there's only one choice - Cyber Studio tacities II offers. II you do not have a com nuter and you want to try 30 animation should have this package it is the bargain

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DUNGEDN MASTER - ATARIST

Size into the world of Dungeon thateler and see tentasy come to test Set In the Set In t

OIDS - ATARI ST

Rescue the Cride from the jannateh Bootelew, who are lutring them bootelew, who are lutring them control even against control even and control of control even and control of charge your sold pransition and control of pransition and control of pransition and control of pransition and pransit





WELCOME BACK, PAC?

Some very old game styles are back in vogue in the arcades. Do the manufacturers assume we just can't get enough of the stuff? Or are they running out of ideas?



PACMANIA

Namco Price 30p

If the names Clyde, Inby Pinky Funky Blinky and Sue make you brenk out in a cold sweet and start glibboring cloud prover pills chemies and strowbernes, then the chances are you've and Pezzera for For years the Pezzera games terrotized the accordes, you either leved the games or burde them, and it you loved them, well, you were hooked for coold

Sown years ofter his thirt approximates his back Now his in atunning 30 and his house how his in atunning 30 and his learnt his house how his man piece has a surface of the sound his man of the time to you've still got to effect each screen his young to achieve of statis shows the pills. You get a choice of statis stores for such game, however, and his sometry changes countingly. The jump feetily means that native drop you can actually must forward the choices, and house over them.

If you've been waiting for Patiman to become popular once again (you probably



Life Collect Second Second Second

Touring purpy from a glossi. Time to larm and bounce?

Purious fire button action is your only hope of survival in this horizontally smalling shoot em-up. The game comes complete with a tned and tested arouse formula fiv your mon through wave after wave of attacking alians, pick up the benefits for more frepow-

You've got a standard bent-firing gun plus bombs to start with, and both are acti-Valual with the same fire button. Rombs come th jolly handy for destroying the few but annoying, ground based installations. Symbols that appear throughout the game cooceal extra benefits, shoot the symbol and collect the resulting letter. The benefits vory according to which letter you pick up. An L groces your gun with loser fire while on F gives the player super first quick fine. Holding down the fire button and the button that's located next to it on the cabinet results in



Can you tend the ghost to the church

wear platform shoes and flazes don't you?) then Poconconic is the consiver to your prayers For anyone else however the inter est is more likely to be due to nostalgna than



gel Even beencang can't terre you se vertimes.



On the Erst stage. Fortaxististy you've get a drold to make the job a

quick fire mode being activated - very handy if you're in a tight spot

On the earlier levels at least, there's no scenery to crosh into so your only worry is destroying the aliens Later, Salamandertype tentacles that cannot be destroyed. appear from floors and ceilinas and must be dodged. The end-of-level guardians can be tough to defeat, as you have to hit them in certain areas - you'll have your reactions tested to the full here

Exzeus is a mish-mash of features from many other popular arancle reames, with no exceptional or outstanding features of it's own it's still playable and addictive with good graphics and sound, but it doesn't do onything better than, say, R-Type or Sala-



Is Asiaroids. The 86 version gives the player the chance to switch between three traft at the touch of a button. One of the craft is tough. and can withstand a few bashes from the new filled-in rocks. The next craft is not so tough but has a higher rate of fire and the third craft is very weak but very fast. Taches are now the order of day, decide which craft to use in which situation and hopefully you can clear the sector of not just the asteroids but the awarming aliens that now make their appearance in the game.

VIGILANTE

Here's another collaboration of game styles Kung Fu Master meets Renegade and Double Dragon for this best-om-up. Same old plot - punch or kick the bad duys and defeat the gang leaders. You've gol extras to pick up in the shape of noe sticks etc but once again we've seen it all before

CYBER TANK One of the newest machines to olier some

thing different to the player is Cyber Tank. The game comes in a huge malt green care oullaged cabine) and is one of the first of the new co-operation games to ht like U.K. Two players are needed to control your tank. One is solely concerned with the driving, and so has two lovaticks to operate and the other player stands to the right of the driver on a small platform and is in charge of the weaponry That should create some lively discussions

out for a full review of the game in a future. Issue of ACE



Up against an anal-of-level guardien. Pump fire in an fact on you can







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fellow mm. Heretiles is set 12 awesome tasks to excoverate the sin of numbering the children. Armed by his divine fathers he sets forth to face the hideouts skeleton bordes and ultimately overcome the evil minotant. To slav the dangmed is his only

rie of his
s is set 12
Let no men or beas
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children.
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ad destroy the Scorpians, DEATH TO THE SCORPIANS.





ANALYSIS .

What have the highest ACE-rated game ever, Atari's supercharged ABAQ and a Spectrum-compatible micro for the Third World all got in common? Cambridge, that's what! The city of dreaming spires and glittering prizes is home for some of Britain's top programmers and hardware designers – not to mention several major micro industry landmarks



In the boom years of 19844. Casbodge was the commer district mislationisty. The University bless is conducted by the University bless is monthered bits Stockers's Specialists and Access 16th March and 16th Anglot were self-less than 16th March and 16th Anglot were than 16th March and 16th Anglot were and North Welley, no less the popular and ord ord of the welley to less than 16th Anglot were also than the march and 16th Anglot Anglot Anglot and 16th Anglot Anglot Anglot Anglot March Anglot Anglot Anglot Anglot North Anglot Anglot Anglot North Anglot A

A MICRO FOR THE THIRD WORLD The last new mucro to come out of Com-

bridge was the Acom Auchimedes Just chould be last word in convenience countries of edition the last word in convenience countries or edition; the Just Auchies canned of the educational motive? The next Combandes mano will diso be carried at educational, but these the surnitarity ends. The forthcoming Miss Gerdon Forthcology machine—lendon tonly named SAM—may be at let of things, but states of these fit dan!

MGT aren's exactly a household name but in Spectrum hobbytst circles they've built up quite a reputation. They designed the popular Disciple disk interface and followed this up with a cheeper more compact vision called the Plus D. Now that the Plus Distinging in the moncy this leaves marketing man Alan Males and hardware designed Bruce Gorland free to want on SAM.

The machine's speciation in surprising to put it mildly its central processor is the 2008 special could of the 250A chip used in the Amstrad CPC and more agnificantly the Spectrum. The SAM's intended to be



tion Wes (Int) and Bruce Gorden, founders of WGT

Spectrum-composible in fact and the current breadboarded prototype certainly does run a tair range of Spectrum games There's still the ROM to come – the prototype uses an Amstrad/Sinciatr item – but there's no partic-

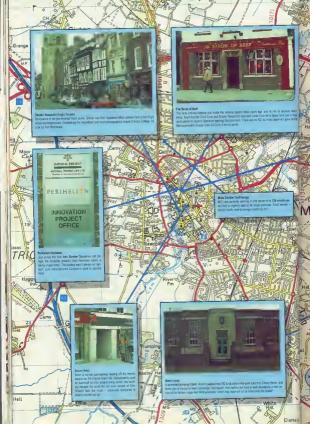
ular reason why that should cause problems if all goes according to pian the machine will have 256K of RAM built-in networking



The SAM protetype. The hence hourd at the congular liquit, said the more clustered one in the background handles the video logic that it be replaced by a single coston obly in the finished reaching

ent graphics modes will allow 80 achimn text at a pinch. 8x1 attributes (like an MSX) or a 16-colour screen with no attributes at all

Just how a mochane like SAM will sell is open to question. Molf aim to knows production of the machane in India and the Middle East for use in education — to which end it'll be getting a far better Basic than the Spectium has — as well as manufacturing and





selling if here in the UK. But worth the 16-bit boom sensity demaps SAME channes in Betten? People don't need that land of power? Alon Mides argues. The like using a roomp car in driver issued in the shops. What people could in schools is a charge more you can network easily! that way you can buy a whole closeful of them and connect them up together.

There are other possibilities for a cheap networkable micro of course. Multi-player agames would be particularly suitable the Spectrum compatibility means that games programmers know how to make the

mode quite a spicati. Bide was origentity or BBC game conceived and written in Cambridge sales on 8-bit formats have been specialize coming authors David Braben and luin Bell at small lortune. Now there's a PC vision in the shops, with ST and Amiga versions waiting in the wing.

Thrust was also a Cambridge game, as you might have guessed from its strong physics fervour Author Jersenny Smith chow the ZX-SHET control large to match those on Accessed's version of Asteroids but the same amagement orgos up in the very Thrust-Sh Cikis (reviewed on page 44) so the game's



ST ZANCH Then are still the clipping and consist restince to come - the title seeds finalizing too! - but already the gazan's looking very marrowen indeed.

machine perform, and with a \$100 pince tag you could actually afford to get a few of them within a cable length of each other

been within a cable-length of extra close. The SAMI chances on a manufacture machine one of part is made and pleas made on early good. I machine, and of without sensor While the Z80 might be printedly collected to be Z80 might be printedly collected by the Amstead FCW and the Z80 me time campiles have—selfy card to pay with the sort of demonstration computer entertainment makes. A your or might is famelle upon anythin the motile good might have been a very different story but 18 storolists of a very long time in the home computer to any of the control of

GAMES INTO THE NINETIES Although Sinclan Research, most or less cas

Although landcar Besearch more or lest casciacid the IX games monated with the Spactium. Cambridge programment have vicinities. Cambridge programment have vicinities and Jacobs and the Cambridge and the Cambridge learnings mode of the first choice of most stuleatings mode of the first choice of most student horizon, but this lended to short them out of mointwisem; gomes writing as the Specturing ground the upper hand Some have carmed on writing far the Stock howermone is caused to other formack at usuality mode in cause to other formack it usuality clearly done some influencing itself

With the arrival of the Archimedes, Acom lans are coming into their own again The Archae and a major against micro and probably never will be but the power and memory size of the 32-bit powerhouse mean that games developed on it will typically convert well to the ST and Amou Take Zosch for instance, the highest ACE-rated game ever so for only available for the Ambimodes, it'll soon be available for the ST and Amiga Author David Braben's doing the conversion work himself, and already has the ST boverplane fiving. The finished game won't be grute as satisfying to look of as its Archie gousin - no surprises there - but the lotest ST version runs of a healthy 15 frames per second or so By 68000 standards, this one since and dances

Vesally, the man loss compared to the Archae stress from the STs varieties patients and fivet on-screen colours. The Archais phenomental Solf display offers 556 calculus on screen or once out of 40%, ollowing Zonch to use telephocusing — a system whereing the landscape gate double or it incodes thick the distance Depth-causing mostics the games and experiences. The stress is the property to the stress of the stress of the stress to color of ST to the ST and strat to the took.

Neither, surprisingly enough, is the



The multi-storay ABAC motivaries of the time size objectorectors in the tengenum labe term cards or cults manney while the matri-lan in the tectorarum langua the whole traing confi

Amigor Though the proched maximum (32) colours out at 40%) might sound like enough Amiga Zarch will actually only use 16 colours on screen at once - and will still run slightly slower than the ST version. The blitter simply isn't suited to the sort of tooks the game involves, it seems so the 68000 has to carry the whole burden "it's the set-up time. Broben explains The bitter's very last once it's working on a problem, but it takes so long to get the thing going that overall its slower than the 58000 in other words the Amiga's no better than an ST for this kind of thing in fact it's slightly worse if anything. the STs 68000 being a slightly faster animal Surprise of the month? That'd have to be

Surprise of the month? Thorid have to be the possibility (and thoris cill it is at the proceeding of Spectrum Zurch Granted the very idea sounds indicatous but from a few book of-on-everlape titimings it books his at could just work. As for the colour landphones you can work those out for youselved.

Other thangs solid and 3D are also also also.

an Commission, in the som of Companer Winters by Journal Ceitaline Set users) Winters by Journal Ceitaline Set users) Zeacht 20 displays evalues: the lank workers the mask on opportunities of the Set (General of the Pulmer spood file cloudton the Acommonished Syptems Sethware, so you'll soon be obtle to drive out in your HAPA to late the Other Sethware Sethware HAPA to late the Other Sethware Sethware There are a good range of other behald bely and you can choose all how strategies or particularly and you can be commissioned by the opening sound to get—commission you contain country to get commissioned by the commission of co. of change of the theory-entry to an it on of the control of the commission of the change of the theory-entry to an it on of the control of the commission of t



Jack Long, head of Perhelien Schwers, shows off an ASAO Term card. Plug tim in and you've get the lives the processing press?

All paperal Congress has to be core of the most of the

SILICON FEN MOVES ON

SALICON FEN MOVES OF Chee upon a time a Cambridge-based firm by the same of Computers used to build a bone micro collect the Lynx. The Lynx could have been a contender or they say except for a line tittle quiries — if wouldn't scrott the screen once you reached the bottom line, that lound of thing. To cut a long stay short,



Tim King, the nan-behind ABAQ's revolutionary operating system

Computers eventually stopped producing the Lynx and shapped out they were only the first casualities of a tough waiter poor Xinos scies convenced City onalysis that the misco boom was over, bookly dramaged Oxio (the Almos people) and drove Acom and the errors of Olivetts.

Computers may be gone but their offices, behind on expensive restaurant on Combridge's Bridge St one still in use by the computer industry. Now they're home to a rother

higher form of technology mend you. Perihetion Handware are busy there, budisling the ABAG worksteins for Atum. The Transputer technology driving the ABAG is a boar, long way ahead of the Lyrux's 280. If sepresents a whole new slonge in the evolution of computers, and ABAG sees it one stage neares to

reaching home-micro form ACE caught up with Pecihelion in an exam hall on the University's New Museums Site at a recruiting four for computer science undergraduates Colour demos written by but only hinled at the machine's true power After all, on ABAQ picture in half a million colours doesn't look that much better than an Amigo one in a mere 40%. The million putel black and white display gove a rather better idea of scale A 150-column, 120 line text screen is impressive but not mind-shottering other all, 1260x960 puxels in mono isn't that much better than the resolution some Mountosh set-ups can manage - but the compar ions deceptive It's only the monitor that: black and white, the ABAQ could comfort ably manage 1280x960 in 16 colours. That's aimost 20 Alaxi ST game screens at a glance, and the ABAG's got the power to handle that much display too



ABAC's enermous DEM skeldep.

All you'll know it you read Game of the Puture in ACE issue 4, the beauty of his puture in ACE issue 4, the beauty of his puture is the way they can coopende or tests showing the work between them it for can plung account for in the low reading puture of the puture in a children to the cone it share with and share contribute in a children to the cone it shares with and share contribute in some soulty test on some soulty test only state.

The Dings the most behavior. Amoughour own body of perfection Software below coded the Developedies can be very closed. All bouthood micros have an expended and bottlended micros have an expended light. In facel 8 years were to got carry leads which were provided to the Developed to see house to be about to be about the behavior of the soft throughout the ordered the behavior of the soft throughout the ordered throughout the behavior of the Developed throughout the behavior of soft and excellent opinion for the Transporter, in time for when a control years of time the soft perfect years of it may be the possible of the Development o

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e of the solution of Transperiod on a 2 one sight, you can hake and still a solution of the solution of the

absolute speed of ny faster, in parallel i from the write try-toting system when if two years in when should know Pen-

Will there ever be a game in which the alien opposition actually evolves its own intelligence? Could Space Invaders learn to fight back? Simon Beesley is running scared...

ALIVE!



ets toon 2 if a virus hos state totation you did kirchica is utilized you did kirchica his utilized you must viruse to date howe been largity brought hem its guring to take more than a Remini largin to refere you good temper you like the bellet hour or so can't the sensing will did down by the end of nost week Deem then you'll be utilized be within the sensing the larging the strain place will be the strain place. The complaintang betterly and opportunity the virus of a case of computers.

Security though you are potentially intuitived even effect whe styrift section by the size Ad everyone travels computed even effect of the size Ad everyone travels computed software between the software between the software between the software between the size of the s

It's considerations like these that explain, why the prespect of a new genie of games impured by biological principles can be so inscanding. Thus it is only a proteigned, principles can be so inscanding. Thus it is only a proteigned, opens downst exist or influent in biological, opens downst exist or influent in biological, opens downst exist or influent in biological, opens downstand in the proteigned of the very least - point the wary to what is resoluble.

The final step along the way will be to produce games in which the other oppositions shorn lever and these and in the poocess evalues its own game techniques with the objective of defooting you. The player the grandfather of all Life-games is Life.

the grandiather of all Life-games is the steel (see box) invented by Cambridge



Life

Life lakes place on a grid of cults, each of which is either on or 10 Ar a simple lead obs play like grid may consist of twise and columns of character spaces - the latter. Or represents a live cell and a board cell is life blank. More commonly, this screen's pusies from the grid and a live cell is one where the pizel is charm.

in a foreground colour

Bearing in mind that each live cell can have a maximum of eight neighbours (including diagonal reighbours), Life proceeds according

- If a (tve) cell has two or three neighbours, if strys alive for the next generation
- stry's are for the next generation

 Any other number of neighbours means that
 the cell dies in the next generation, the box it
- occipies on the gnd will be blank.

 Three neighbours surrounding a blank box give birth to a new cell in the next generation.
- the box will contain a new cell

 Notice that what we're really talking about are simple graphical boxes on the screen, but that

ample graphical boards on the screan, but that we have referred to tham as beological 'cetis'. When you see a pixel based Life screen in action 4 is hard to think of them in any other way - further testimony to people a tendency to personify what they see, seeking for real life stantificance even in an inert computer virus

To start a game of Life, you either lay down a pattern of cells yourself (using the cur sor mouse or joystick) or let the computer ran domly seed the initial Life universe. The pro-

gram then passes from box to box calculating whether cells will live, die or be born. When it reaches the bottom of the screen, it displays the next generation.

If the computer is that enough to catalate may be presented as a feet of the part lead and as a second, he stores a condition that the part lead as a second, he stores acrond becomes annual and cold colduction growing conditions and a stored because of the colduction and a stored because of the colduction and a stored part lead to the colduction and a stored part lead to the colduction and the colduction and part lead to the colduction and the

motheractions John Convey in 1965, Whee sountly Roberd Dowlans on October 1965, and deviced as general collect the Roberd Workshop to Blastine the poolses of evolution. Two other councidates on the southern. Two other councidates on the southern the sold into through the sold into the general power of the sold into the power of the through our Month of the sold into the sold into the sold into the sold into the programs and the projectioning particles behalf them you bogs to sucke that the consult of evolving called in a genus and so counting out offer when you dealed in a genus and so counting out offer.

THE BLIND WATCHMAKER Richard Dawkins developed the Blind

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Worthmaker game for the Apple Mactintesh while wrining the book of the same name Put beatly the book is intended to stow how effective Charles Dazwan's theory of evolution is And on a much smaller sade, the game does the same thing

Bird Winchmoder the pamer Bustleme for between yet between the evolutions of graphic butgers (mixeday the shapes considered in access The males for distinct of shapes consequent to the believing the shapes consequent to the between of a graphic shape consequent to the product of the product

The point of the game is to show how a succession of small cumulative changes in a handful of simple drawing rules can fead to highly complex designs. Like Life's partiens the shapes that emerge and often quite unexpected and uniproductable.

However these shapes develop in a



Tot negroom season

This disgram shows the Right patht of a Life glider – a particular cell-pattern that can delech lised from a greey and life scross the screen. The pattern has a life-cycle of thur stages before returning to till professible birth pattern.

Origin of the Theories

State Dawkins book The Blind Watchmaker's the lated in a long sures of publiculations integred by the conflowersy surrounding Dawwin's Ongan of the Spaces. This book was published in 1851 and his theory of worldfron has been generally accepted ever since as the only visible sperific excitangion of life on.

Well almost the only viable explanation. The is now a straight body of Ornationists mainly in the USA (and among tham seweral presidential cartididate), who between otherwise Estimate Christopher Holding of the world and all also orealizes in 4004 B.C. if the main time of exiting the Month of the Control of the control

by leaving lieke lossif endence of an evolution ary process starting several thousand million

If you think that is wend, then wast 141 you catch up on the so-called Antitop Phospire Broadly speaking that offers an integratation of integen places which says imply that the alien on your monitor screen didn't exist until your monitor screen didn't exist until your face which says should be sold the said of existing the should be sold that the world exist primary to be done and therefore by implication proxiety for distincts -1 exist humans. When I lakes up to the world the said of creation as a roth table to the thinks up that the said of creation as a roth of the said of creation as a roth of the said of



particular direction according to the player, processed included player under those any processed included policycon that makes the control of the player of the processed or and the player of player of the player of the player of player of

This is where for us computer gammas the challenge comes in its been assued by Richard Darwkins and is startlingly simple but has tremendous stiplications. The challenge is to make the computer do the selection go is build in a busile environment which discusses whether a biomorph survivis or not if-deatly he says the extrement should include other evolving biomorphs predia include other evolving biomorphs predia too some ordering competition.

tos prey parasses compessos
The evolution of computer gaming has
thrown up the spaces best fitted to meet this
challenge — games programmers. Actually
Richard Davisians auts if rather differently

but the gist of it is the same. They are alteredly occusionsed to setting up a little world in which areatures inflexat with each other. All they would need to do is introduce some random perfubation. To Darwinite the arms?

A GAME FOREVER

This idea of Danwinking a game has the most enormous implications for computer entertainment. The moin recean ACE with-cluded the PEC curve in the review section was the unportained in a game. Take a typical shoot-em-up - Piutos.

Where to find Life

you want to pursue you own the soften the use thing you will meet a compensative second of the Guesto to BASC often sought a large company of the compensative second to required to a propriate market advers a feat generated as a propriate market adverse a feat generated as a propriate market adverse a feat peat adverse and the compensative second on when they reach the edge Some Life progress solve the prodried by wisapping the grid ground. The life size of the grid or life in your will be propriate to will be the compensative pears solve the prodried by wisapping the grid ground the life size of the grid or life and solve with the grid solve while the took of the solve the grid conductive will be took of the life of the solve of the prodried shares in grid case a torout is coughtful with a leaf mitty grid case a torout is coughtful with a leaf mit grid case a torout is coughtful with a leaf mit grid case a torout is coughtful with a leaf mit grid case a torout is coughtful with a leaf mit grid case a torout is coughtful with a leaf mit grid case and the leaf mit grid case the leaf mit grid of the leaf of the leaf mit grid of the leaf o

The best source of Life is the public idomain software thranks These software confections always include some applications of

domain libitery is for a new machine, you can be sure to find on example of Star Trek or Combant and fide.

Of course they also go much further The Fish dask library for the Amiga is particularly well stocked with high quality games, and graphics applications. In fact the Fish disps alone are particular places on enough to buy an Amiga. Rum maging through 50 or so Fish disks. I Jumed ayo wo versions of Litle - 30 Litle and PopLife, and

Popular some of the whacker instances of Conway's game. Using the office on a prise based, gind of 640 by 256 it manages is actived a rate of almost sowen generations presecond. You office on the program con in the Workborn's pre-gen and it stests straight laws sharing the Workborn's manager of the continual pixal patients. The effect is stated discustinal pixal patients. The effect is stated discuscorroded by bacteria. You can strok on an icon to redisplay if only to have it instently dispove

For the Amstrad PC and other IBM cometibles there is Krimite in which new general ons are shown in different polours. ACEs stall female PC Plus apopted this tast year on one

With a version of Life in hand you can him begin to explore the Life universite to do your own natural history. Remember Indig you have been investigated Life Sive and launs for the pass 20 years. Whatever you discours has similar ordering his sive advantage of their feedings by compilify a advantage of their feedings by compilify a book on the subject Although heavy shifting places Wirliam Poundations is Recurried Limits visites in highly scorementacide as an individual control of the compiling and the services in highly scorementacide as an individual control of the compiling and the compiling as the compiling and the compiling and

Life variants

vanation in 3-4 Life for exemply cells sur

Then it consults a table to see what colour

With Darwin Mike Singleton has impto Life Once agein, there are 16 different Every species has its own genetic code made up of 56 genes. Since there are 56 df. levent ways in which the two neighbours can particular type of reproduction i.e. neighbours at positions I and 8 pould Impair

The rules sound mind beggingly comother and a dominant species emerges, hling this version of Life coes on and on

large object moving across the screen and identify if The lesson is simple - some borsic mathematical skulldiggery can introduce Decris of variation and evolution

QAMES ALIVE!

Shortly speaking Life (as described elsewhere on these pages) isn't really a game at all (It's more a spectator sport). There is no interaction and you can't win or lose. But could the ideas behind Life and Watchmaker be applied to games design? By introducing a few rules for cell generation or by borrowing a lew techniques from evolution, would you be able to design a garne where the game play look an unpredictable course?

Perhans as Lards of Midnight program. mer Mike Singleton speculates the crea lest tube could be used in games you could octually sell a game that evolved with the player - to meet the player's skill level. In this case, the player would provide the hostile environment needed to select the fittest from the game's vanous software life

More realistically, though Mike Singleton thinks that the world of the biomarph is los too complex to be adapted to a game Too much processing power is called to Dawkinss challenge may have to wait for the day when games are played on paral-

like to try out another Singleton idea a game based on multi-cellular creatures smilar to Lifes objects but with a new set of rules. Different colours would represent sepcarde cell functions. Thus you would have egg-loving cells motor cells to shuft the lifeform across the screen, sensor cells, and so on. Natural selection can enter the game via competition with other lifetoms and you can introduce mutation at the egg-laying stage possibly employing radioactive

Programs Like Lde, Mike Singleton's Chrome and Steve Dawkins' Blind Watchmaker have all established sound principles for the generation of on-screen life-forms Despite Mike's scepticism about the possibilit ties of introducing into games at the present time here at ACE we recken there's enough processing power in an Amiga or an ST to whichever software house succeeds in producing an evolutionary game is going to make a lartune. Meanwhile, we suggest that you keep proctsing your laser lech names - so that when the opposition does start acting up you'll be ready for them .

you start playing it's a battle between you and the opposition. Only problem is in the long run there can be only one winner -That's because after a time you begin to

ing your croft in the light area of the screen had at laser-fire. There's a lot of satisfaction. in this but it pales into insignificance bescie the idea of a game in which the aliens start altering their flight partierns, let done one in which they develop strenger like that wouldn't rust last a few months you could still be playing it in fifty years

Unpredictability and the lasting interest if generates is one of the main leafures that makes Life so toscanating. For the beginner the only way to tell how a pattern will develop is to try it and see Describ the sim ple basic formulae in the game. Life enthubasis have spent an enarmous amount of time exploring the Life universe classifying oven a newsletter to enthusiasts called the proneers was whether they could devise a patiern which kent an arowing John Conway put up a \$50 paze for the first pason to find such a pattern. If was called ed by William Gosper (a) the MIT group of er gun - it shoots out abdes every 30 den-

Many of the most inferesting Life phenomina however were discovered by chance Spaceships which are similar to alders but bigger were spotted when one

BLIND WATCHMAKER IN ACTION





We re-getting there, only another few they amed perpendions and heat of resistents to go

Richard Dawkina' program allows the user to deline his own cell forms and then breed them. mulate tham, and study them throughout many ganerations. You can than save promising Ele-forms (or "blomorphs.) to disk for tuture breeding programs. Here are two alages in a breeding program - the final desired result is a bipedal being.



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WHAT YOU HAVE TO DO Cast your highly trained eye over the black and

while still below, taken from en original Three Stooges short Decide which of the stooges is Which and enter the answer on the form provided

> simpler could it? Then enter the rest of your details on the form and post it to ACE Stooges. 4 Queen Street, BATH, BA1 1EJ, to errive not leter than May



MEANWHILE, ON YOUR COMPUTER SCREEN...

it's move time. thanks to Mirrorsoft The shots above come from their latest Cine. maware blockbusters Rocket Allinger (to be released in June) and The Three Stooges (m the shops any moment now) Ome maware have already produced some sturning visual material in their legendary Defender of the Grown recently converted onto the ST from the Amiga

original and playing better than ever Rocket Ranger and the Three Stooges are their latest attempt to go even further with the micro move concept, combining state of the art animated sequences

with arcade actron The Three Stonges leatures the infamous heroes of the black and white screen in a sense of odd-robs designed to raise cash for an orphanege You have Ip oel the team

through prize light ing, pie throwing. and medical meyhema eccompened by digitised

sound effects and voices from the ong-

Rocket Banger combines arcade sequences with strategy elements in a plot that verws each time you play As Rockel Ranger you must deleat Axis warplanes misque beautiful ladies and kidnapped scientists. and seek out a powerful sample of the leg endary Lunarum, which will send your rockel to the moon for a limal controllation with the

Check out a future issue of ACE for the definitive reviews of these very promising products - Rocket Renger will be appearing for the Amigal C64/126, Atan ST, and IBM PC el prices ranging from £14 99 to £29 99 with the same formats and price range for The Three Stoones



the best seal m sight - and spend the entrance fee on a healthy bag of popcom.

And not sunt one Friday either but tivery week for a whole year. In conjunction with Cinemaware, we're offening three lucky MISTERS special vouchers for entry to them local Cornon Cineme, 52 in all Spend them how you like - take your loved one every fort right for example or gather together 51 Inends Even if you're not lucky enough to get the

lickets, there are slift two superb Criemaware each but more importantly they as not exactly common in the shops. We're telking exclusive graf here and it won I cost you a penny

ENTRY FORM Tal No Stooge B is Stooge C is

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A LEGEND IN GAMES SOFTWARE

SCREEN TES



Better put on gloves before handling this month's Screen Test. We've got two of the hottest games we've seen for guite a while - Dungeon Master and Oids, both

from FTL/Mirrorsoft, If you've been wondering what all the fuss about 16-bit megagames has been about, enlighten vourself now. Time, too, to

find out the facts behind the fuss over the Hewson/Telecom-soft wrangle -Steve Turner and Andy Braybrook took their wares to the big BT - you can see what it was they had in their suitcases in our reviews of Morpheus and Magnetron. Amiga owners get pole position on the track this month

as well, with Ferrari Formula One, a mouse-controlled racing sim that leaves very little to be desired, apart from actually owning the car. And

once you've got a bellyfull of this month's goodies, don't forget to check out the latest conversions for your machine on the Updates pages.



THE RATINGS

HOW they're calculated... If you buy a came, how much empyment will you

get out of it and for how long? Just check out our be lut story. Bolkant arcade games start high on the curve, and then sleadily fail off as you lose. dirib up the scale as you begin to appreciate the scope of the gameplay. And as for the turkeys they start low stay low and have nowhere to go buildown down down

Once you've seen how long the game can hold your attention, all you need to plance at is the renowned ACE RATING. This is calculated according to the area under the PIC. The blogger it is the better the game. Add to that our delinative game And of course we rale the Graphics and Audio ellects too for EVERY machine the

came's available or WHY you can rely on them.,.

Wilton knows more about 68000 op codes than also beat the pants off the opposition in Olds Andy Smith doesn't know an op code from an allen but his years of game playing expending thing from sims to shoot emisos. Add Stava Cooke (IIIx Parsonal Computer Games and for Action, Personal Computer Games and Your Computer reviewer) and you've got age and expe-

seen by all of us. We compare notes, express oil to lake final responsibility for getting our views dol on this months software. We've checked if out - new you can too

NDEX

- - 63 AHEN SYNDROME Social

 - - Advanced Computer Entertainment 43

DO you like drying headhist down gun intested pot holes blasting and shield buying an ST right the minute? Then hold on

tight - this game delivers The story so for those nosty defencetess Olds tacking them Olds from the wreckage and

Mostering the problems of inertia and acceleration shouldn't take you too land here but there's a pasty twist. Your weapons - both right batance takes practice though expen

Needless to say the game's no piece of cake once you've got combat living soried out

> distort analyty so as to attract or repet your ship giving even

expenenced pilots some senous

Atari ST Version

6 IQ FACTOR 2 FUN FACTOR ACE RATING 969

PREDICTED INTEREST CURVE

MIRRORSOFT to the rescue!





ATARIST £19 99dk

touch down on your lost tins Lungs Lander ously difficult or just plain impossible when

operated - activate it too late and you're dead. The tanger you keep your shield on the

Sheld technique is a tricky business and a

pare You'll also need to find fuel dumps on the

way through the planetaids eventually. There's an enormous amount to do sure enough, but have you playing right and day. When the then? Why design some palaries of your own

Andy Wilton

PROBLEMS, PROBLEMS







FOR EXAMPLE.

incles all imaginary screen from Olds to show just how complex things can get. Though we've

FORCE DIAGRAM





ATAN ST - Of Recities's massurateing as a metric in this world and is disparate to callect those polylating hearts. Thoulde is most at their are safe before reals, but if the week is log at bases from a to the blood lags, turn on the line tap and see what happens what the two meet the most had the recent spaces with his fearables were.

Spectrum Version

Developed with the incredible processing power of the Arregal thay well be tool it still blook like a Spectrum game. Clappides are line and all the screens are there as on other versions. The problem – so with Soutdendark — in the screding this Spectrum just can't handle is vary well. If you don't mid the protement through it is nord-value at 12 high.

GRAPHICS 6 IQ FACTOR
AUDIO 7 FUN FACTOR
ACE RATING 720

C64 Version

is just a see bit fuzzy on this version so determined sent of that cless in his many

RAPHICS 6 10 FACTOR 1 UDIO 6 FUN FACTOR 7 ACE RATING 720

ROCKFORD

MELBOURNE HOUSE dig for treasure

ORIGINAL games well always open specific and closes. Sociética is the intest an a long line-red games who came there custed no the great Routerdomb. And set to prove its pedigree the puzzles increve been designed with the oid Feder Liapor – who stands the whole thing of in the test proces Routed wheat the work of the custe society of the class society of the custe society great society. The custe societypaging cutters who stemed in the course.

Despite Paler Liepc's involvement however Rockford's cursously inexicting These are five different game 'worlds, in each of which Rockford plays a different character Each world has 16 dulticulty levels giving you 80 screens in all

The recipe is as betwee push around the rocks or other obtacles around manasies, gather the breasures and their mobile it out of the east before the time timal exposes. Depending on Rockfords botractics the relativistic and breasures will change On the

Cowboy world you have to avoid the
IBM PC Version
Very well implemented indused Rodford fairly sales round the strates, while the scraling of not and smooth Why though a time on option I satisfast.

GRAPHICS 9 IQ FACTOR 9
AUDIO 8 FUN FACTOR 8
ACE RATING 832

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twelling pistols and collect gold coins as the Cook you must gather applies and so on

The puzzles are tough but don't seem quite so fiendish as in other games of that lik and the graphics and arumation are excellent but we've just seen too much of this stuff.

Parle Como:

Atori ST Version

Very peetly graphics and nice sound it's a very sophieticaled pece of work – bull you'll need to be a

GRAPHICS 8 IQ FACTOR
AUDIO 6 FUN FACTOR
ACE RATING 758



CS4 — Here o Rocky sx rectiff toestof cowbay, desperals to collect ability gold business that these platets whiting amount can cause problems. Second he bette it said go full lift, or in there is more saffer method?

46 Advanced Computer Entertainment



FORMULA ONE

ELECTRONIC ARTS put the pedal to the metal

EVERY Supple dreams of owning to Ferran Testarcesa (once the essential personal organises has been purchased) but the sort of hardware you get to drive in the simulation is another matter alto-

game, with the player firmly in the driving sout Participating in races is the main attraction but there are other things that need

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attending to The car's engine and accody roms headquarters in Florano (pron. Fee-Oh-Ron-Oh), then the player also has to decide driver's eye view of each race track compiete with cockptt intenor and wing minors As soon as you've got used to the controls including how to brake and accelerate through comers without coming a cropper or lesing large amounts of speed - it's time to enter the 1986 Grand Pax

they would be in real life. For example, if it real formula there can then if will take 45 minutes 'game time (about two in real time). up 20 minutes before the flag drops as you. tust won't have enough time to swap The only thing that is not affected by any sort of time structuring are the flights to and from

Once the player has arrived at the race track it's straight into the first of the two procnce sessions. During these sessions the player



The wood bennet at Forces H.O. on Florage Affords the engle of attack of the car's wings can seriously affect the ca

the two qualifying sessions Success here helps determine the player's starting position

tance of up to 300 kilometers (or 2 hrs realtime dame playing whichever comes tistly you a long time to win your first season. Fee

Andy Smit

Borrier rabber: Last hope those months of presention have not been in valo

how to angle the wings, how ngid to have the front and mar suspension, what goor Once the player has decided how to set up his can the next step is to fest it. You get a can tamilarse himself with the course and after the settings to his our depending on the weather conditions. After practice and once all the necessary changes have been made to the our the player moves onto the first of

Amiga Version

that will thrill tans of this gente

The perspective used throughout the dame is very restatic - you really do get the impression that you're careening around the circuit with about 20mm between the farmac and the seal of your parts Sound effects foo are very good and help to make this a competing and axtramely playable game wo thy of shell space in any race fan's library.

10 FACTOR 7 FUN FACTOR ACE RATING 856





NEVER mind the legal wrangles surthe came like? imbally it's confusing but it

age ascude shoot-em up Broadly speaking yours in charge of a large spaceship in which you attempt to

tive and negative charges of the two equal RELEASE BOX

£14 95cs £17 95dk OUT NOW C64 128

MORPHEUS

Conquer the universe with RAINBIRD

but apposite great of space that together

to hander you in your greet to destroy al survival the game has a complex pur game really comes into its own - the Mor

PHANE

phai learn how to survive your attacks so you constrainly have to upgrade your

Andy Smith

C64 Version

9 IQ FACTOR 6 FUN FACTOR ACE RATING 772



Blassing away all the nucleus before you we destroyed the set number of charge orbitals is suitable.

POWER AT SEA VAMPIRE'S

ACCOLADE tread water



OCTOBER 1944 is the time and is the place. The player com-

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in scent of the old Beachhead Andy Smith



MAGIC BYTES grab the gartic

GARLIC Hindras Dr. Von Helsing

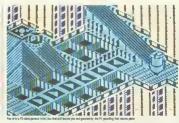
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LAWYERS may end up making more money od it than tammers or software houses do but this et/Braybrook classics like Paradroid or

The plots simple enough eight enemy so you've not to disable them by shufting Der nuclear reactors down. As arme tasks ite has four roactors and a wade rance of utiles you can beet yourself up a bit

Self improvement's something the KLP-2's way good at mind you. Just switch its armoting device on, ram an enemy draid hank



MAGNETRON

Can FIREBIRD spare the rod?

YOU can cannibalise it for spare parts. These form a new improved droud with better weaponry delenous or power systems,

Groppling's not the push-over it might sound like however thanks to the all imagetini enemy security system. This nostly little and you recharge your current drad's energy banks but fail to do even that and the enemy drad explodes taking you with

Diads come in different carle gones from zero (strongest) to eight (weakest - KLP-2's on eight) and the time limit for the puzzle own droid and your torget affack a strong doed with a weak one and you'll have very

ready for the game proper with its exploration combat and reactor-bashing The game area's 100-plus sagmetric 3D screens have ramps ledges and drops rather in the Marble Madness style plus teleparts and these all-susportant reactors. Though you contitol of a screen entirely you can pasily tall from one ledge to another taking damage in the process. In places, magnetic floorover the edge. At first these present few probiems but as you start disabling reactors your draid becomes harder to handle with weight and magnetism both affecting you for more

each reactor's got four rods and each rods got a positive or pegative charge. The total charge across the lour rads determines the reactors status swap rods between reactors and you can send the charge too for one Unfortunately rods are heavy things so ass rying them up slopes can be a problem

on your drowd the higher the Once you've cleaned out

another one and continue your reactor-cide. With only 32 reactors to do the game's

the lask is Nicely paced and very displays and varying droid abilities to add compulsive despite being made up at some

Andy William





lesing accompluly prospled the P1 - years P1 clean now accessed the needor. Pull that -3 rad out and the tons will climb to

Spectrum Version

7 IQ FACTOR 2 FUN FACTOR ACE RATING 904



ARKANOID 2

Bolls bounce back from IMAGINE

BOUNCING boils can still make addictive computer tun as Arkanoid 2 - The Revenue of Dah provis The Breakout super-clone has now astorish you with its originality, but will cer-

The game just in case you didn't know involves bouncing a ball off your bat to break through walls of bricks at the top of the screen. These backs are arranged in versous bendish ways (33 diferent ones) making them pretty tricky to destroy Individual



AASTRAD - These requirerating balls on the go, but it's sail gaves



Spectrum Version There is a problem with the background on the old

W Confidence and	-	and didn't are may	
GRAPHICS AUDIO		IQ FACTOR FUN FACTOR	
ACE	A	ING 671	

To help you various tokens will flufter riown towards you as you hit certain backs you might get laser fire an expanding 'ghost

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bot or multiple balls. A welcome addition to the powers in Arkanoid are the red balls

The basic idea is exactly the same as the first version of the game - but that's not going to put you off if you like this kind of thing. It's all but logether pretty well and remains infu-

Peta Connar

Amstrad Version

need to be precised in a jerky mainter to get to the right place. Furthermore, the but comesmes seems

IO FACTOR 6 FUN FACTOR ACE RATING 749

SOKO-BAN

Not-so-golden oldle from MIRRORSOFT

SOKO-BAN gives you 50 promases (and the ability to design almost 50 more) Each contains a number of crates ignated crate-storage-spots. Your task is simale - push the crates one square at a time

On moze number one this is pretty said briefly tricky. The problem is that you can one just too heavy to shift. At best, you'll be



C64 Version Graphics and sound are very poor Frequent disk

IN FACTOR **ACE RATING 487**

able to disladge them from different angles at want they'll block off an exit or become You can access any screen of Sako-Ban

discourage yourself you can take a peek at say screen 42. Anyone who thinks they're

IBM Version

Very similar to CS4 version, but disk access is no

19 FACTOR 2 FUN FACTOR ACE RATING 546



Detains those craits onto the electronds (an't point to be as every to If looks, And this is only screen number 15

	RELEASE	вох	
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Scoring is based on time taken together with number of moves and crates homed There's a 'competition' made for up to four

Ondunally released three years ago on Japanese MSX cartridge sis a bit of a shad. game idea has sload the test of time but the Sum presentation saxily hasn't What's make have managed to combine challenging unplicity with more voted gameplay

Sleve Cooks



13M 54128 - 9.99t 11.99d AMIGA - 24.99d MSTRAD - 9.99t, 14.99d, ATARI ST - 19.99d

Rainbow ***Arts

TURNING ON THE WORMS Once you've got a fair way into the game

you I come across some preity ferodous pur ple worms that can reduce your battle hard and lazin to so many bones in a short space of time. The way to defeat these monsters is to find yoursell e metal doorway fone you can operate with a button on a wall and luce the worms towards it. Stand on the other side of the doorway and keep it closed, ensure you have plenty of anti-poison potons ready and out your best fighters at the front. Postion yourself as close to the door as possible and raise it. As soon as the worms enter, hit the door button to close it and get your lighters. gama. You'll notice the dogressy banging up and down on the worms (causing them damage) and after a while the worsts will retreat Recover your strength, un-poston anyone who's been bitten and repest the process



DUNGEON **MASTER**

MIRRORSOFT's fantastic quest

FIENDISH puzzles and a multitude of obscalous mansfers prove to be the main ingredients of this huge immensely playable and very atmoadventure If you've been waiting for a realtime tolo-playing game that not only looks good but manages to keep you interested for long periods of time then your prayers have

You lake the part of Theron, an apprentice waterd who's out to rescue his master's Pirestoff from the Dungsons of Lord Chaos How your master came to lose his staff (and end up haveno ha soul sold in two) is the subsect matter for the short story that comes will the package

Twenty tour adventurers have alrea attempted to recover the Firestoff oil looked As Theron you now have the chance to reurrect up to four at these adventurers to accompany you. You choice of characters influenced by their pocular critibutes and you'd need a four mux of shills within you party if you wish to survive. Pighters will be needed to deal with the vanous monster wazerds will be needed to create and call spells to deal with really lough monsters and priests will need to be on hand should any

VITAL STATISTICS

As with all role-playing games the characters in Dungeon Master develop during play, their abities improving with practice. A character's current ability levels can be examined by selecting the status screen and cloking the pointer on the eye loon. The rest of the status screen shows which particular character you've selected (Halk in this case), what thay're carrying and their food and water levals. The top right at the screen shows the positions of the adventurers as they move brough the dungeon. Halk and Sonja are at the front at the moment but the player can after the into-up whenever he tools like it, tratching the abilities of the leader with the most immediate chattenges



Atari ST Version

The graphics, though fargely repetitive are wonder billy drawn and coldured. Sound is sparse but the offside are great A throlling game with plenty to it to

F IQ FACTOR GRAPHICS FUN FACTOR

ACE RATING 949



RELEASE BOX

acter is

id cost

ATABLST COLUMN No other versions planned

The game is viewed through a large Wildow toking up most of the screen with tach individuals health starring magic levels and whatever equipment they happen to be corrying in their hands. Food water and other equipment found through-

Lord Chaos has not only filled his dun-

The Worm's Turn...



I Halting litrough the Dungeon, there's a marking up ahead but he cooke in he blocked in by a pit What's that without on the wall



3. Wall he a princing on a paral that tright open a secret deemmy or it might close the pit if you can dealtwy him without leaving anything heavy on the



That murray not any apassed a decreasy it Hart on the very larger party to a surply party and Hart on the very larger har it much had be seen to



5. One step is the right, and an ami-



geon with a variety of hideous monsters, he's disc thrown in some tocky puzzles that need solving before you can process. These minales are of various kinds, some are simple logic puzzles whilst others take the form of nddles Still more rely completely on the timing of your moves across a particular more

No fantasy adventure would be complete without a smallering of magic and Dungson Master has it's tair share. You wan't have to warry about collecting eyes of newts or wings of bats though because the ability to cast a spell is only dependent upon a character's magac level. For example GothINTEL IS IT CHEMPYTED When I will I THE magac level which means he can let loose with some pretty powerful spells - fireballs for exemple or magic stamma potions which com come in very hondy during a tough bight Halk on the other hand has no spell power so be's never able to seem and cost spells

Dungson Master is a wonderful game that will puzzle and entertain you for a long time - with 14 levels to the game its doubtful you'll finish if in one sitting. Thank heav

· Anty Smith

TASTE has never been the American strong point but some might tind the Folklands War secondries in this conflict simulation from across the Pond a littie more than badily judged. The Falklands War was only six years ago after all and our population.

Still not all of the ten scenarios tound in others involve bottimg up the Savial fixed in

The player takes charge at the whole

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---------	----------	---------

you happen to be playing Objectives include sinking a certain number of subs within a time limit (this is one of the scenarios. set around the Falkland Islands) protecting

C64 Version Nice graphics and sound make for an anjoyable

cise - there's enough action to keep you busy loo

7 IO FACTOR FUN FACTOR ACE RATING 707

STRIKE FLEET

FLECTRONIC ARTS pipe you aboard



The shippend screen. Here is where you decide the number and class of shops in your last force

oess can mean promoton through the ranks

There's plenty to keep the player occupied in the game though most will bless the games speed time-up function when things are quiet Strike Fieet is a well put together

Andr Smith



BLACK SHADOW

Asteroid action from CRL

threatening to put the Earth into stop it by flying across the vertically-scrotting landscape and destroying the military bases reactor Black Shadow is very



CRIKEY' A monster asteroid is 1 pretty musderously difficult and standing features Andy Smith





Get punch-drunk with TYNESOFT

SECONDS OUT



know Mike Hammerhead Hagler was letting loose with

RELEASE BOX

heaributts in the ring It doesn't You've got tive opponents to fight - each slightly tougher that the last on the road to the don't expect it to go the dis-

Andy Smith



MELBOURNE HOUSE

MAY THE FORCE GO

You'll need lit! The reflexes and powers of a mere mortal will not be enough if you accept the challenge of these four chart topping arcade conversions, together for the first time in one package.

GAUNTLET™ & THE DEEPER **DUNGEONS MAPS**





A CavG hit. They said "Great graphics, good sound, perfect playability—what more could you ask for?"The best selling game of 1986 – a UK No. 1 and the Gallon

ATARI





ROAD RUNNER® AC & VGgame of the month "One of the best conversions I have ever played." A UX No. 1 and in the Gallup charts for 20 weeks.

ATARI





INDIANA IONES ser said "A cracking aread se, good sound and object combined with fol r". A UK No. 1 and in the Gallun charts 18 weeks

FOUR INCREDIBLE



METRO CROSS[®] Crash Magazine said "As Coin-op conversions go this is a real winner" A UK smash bit.







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ARNIE Schwarzenegger tans will jump for joy at the very steal of this one - a strip of sideways-scrolling run gle a whole bunch of rebels and a wide range of weapons to kill em with - but the game does leave something to be desired.

The idea's simple run along a strip of bush shooting bad guys and wild animals dodging hostile fire and collecting weapons The only complication - the given hunter what been killing your men off - intrudes as



64 - You'm not of exems. Time to grab your dear haddyn gyn Mei, bid gel on siith the action			
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PREDATOR

ACTIVISION go wild in the jungle!

a gun-sight tracking across the screen affer you You'll lose a life if this zeroes in successfully, but outraining it is rarely a problem.

The weapons available to you might look different, but they tend to be remarkably similar in performance. Ammo for each with the weight of opposition you tape from

Amstrad Version Ridiculous graphic glother and 5mph bullets upoil

any visual impressors that sluggesh ecooler might

4 IQ FACTOR 3 FUN FACTOR ACE RATING 410

C64 Version

but not exactly interesting GRAPHICS 7 IQ FACTOR

3 FUN FACTOR ACE RATING 606

rebels and (what look like) fruit bats you com't shoot everything that attacks you. You could try punching but that won't get you much further than if you just keep running So you are bound to take hits Six hits cost you a life and tosing three lives costs you

the game so it's fust a question of how far you can get before the thing grinds you out the game's poorty implemented multiload but on tape versions the overall dame expenence is a tot like watching point dry

Andy Wilton



SIDE ARMS

GOI shoot some aliens - again

MMINENT

ALIEN tyrants seem to play an important part in game seeones and the latest to threaten the Earth takes the name of Boson. Thankfully there's

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	ar .	

Spectrum Version

GRAPHICS AUDIO		IQ FACTOR	1
ACE F	RAT	ING 493	

Step in Deutenant Heavy and Seignant Sanders (that's you talks) for this one (C64 has two-player option) player blast that will cting you take to face with The Mobile Attriour Sentinet Boson's secret weapon As dame, there are numerous exten wearons to pick up Destroy a wave of oliens pick up from - extra speed, 3-way shots or a Maga Bazooka Lauricher etc. You can then start to from shooting various non-argressive and



FUN FACTOR ACE RATING 594



play pole on the Spages

mais and that that appear occasionally While the game can be tun for a short that doesn't have any new features to keep

 Andy Smith PREDICTED INTEREST CURVE



DRILLER

IBM PC

Incentive £19.95

It's gas build-up time on Mitral again folks. and we're not talking about indigestion either The noxious various produced by dodgy mining techniques have risen in pressure to the point where they could blow the whole place apart so you'd better start plac ing your dalling age pretty fast harin't you?

On the 8-bit scene this one made quite a splash, and no wonder - the solid 3D good looks and real world teet to the game made it both original and impressive. New on the PC it's got a special something extra speed It's last On an 8Mhz CGA PC like the



he basi Dister yet and a tine game by anyon IG FACTOR

FUN FACTOR ACE RATING 962



PC1540 - Drivens around in your excession probe, you pause to hold as all the arth above you



good energy drystal - but worth not for that gun-lumin by the door

Amstrad PC1512 ti moves three times as fast

The game itself hasn't changed - there's still the same mix of backy puzzling and fromtic blasting - but with so much extra speed the latter is nicely hotted up. The overall teal is of an action game with adventure components rather than vice wersa and that's probcitily going to make the game a whole lot more popular - not that it was doing any too bodly as it was

A start-of-game menu allows you to use Amstrad or BM psysticks instead of the main beyboard controls while the chains of CGA or ESA versions will let colour 1640 owner play the best-looking Driller yet (Mono 1640 owners please note, there's no Hercules option so you're out in the cold yet again Ambitious shuff that succeeds admirably this would be a worthy addition to any sensus



MERCENARY

AMIGA Novagen £24.95

When Mercenary first appeared on 6-bit formots it immediately achieved cult status and areated quite a sts amongst gameplayers. You either loved the game and played it for months on end or you hated it and couldn't play it los more than 10 menutes

Whichever faction you happen to belong to doesn't after the fact that the game has road depth. Your task is samply to escurpe the war tom planet of Targ on which you've crash landed But achieving that will take you a long time. Your own spaceship's a write all, so the whole game revolves around. trying to acquire a new craft in which you home. The planet's two main inhabitants -Palyars and Mechanoids - are at war with

Amlaa Version

Desorts the mover of the Arreco, the game is still in it's vector format. This is a little controversial - nome will doubtless have wished the buildings and objects to be filled in while purists would sigue that this would remove most of the game a septhetics. With the Second City included, this is a must for explorers

& IQ FACTOR GRAPHICS 6 FUN FACTOR ACE RATING 894

each other and either side is willing to pay for your mercanary services Should you choose to remain neutral you could even by playing the races of against each other

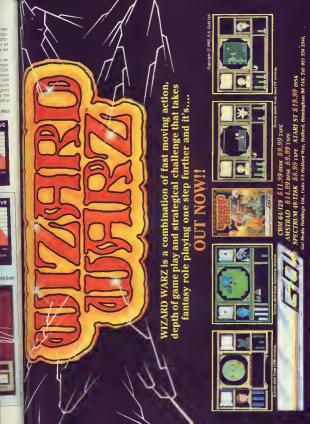
The game area is huge and most of the action takes place overground in Tasg's Centrai City which has a equally large underlooking for a game with a huge quest to



complete then look no further

Andy Str





The year is 2032 AD and the world is balanced on a losife edge etween sarvival and destruction. The last thirty years have seen an

between survival and destruction. The sact talky pears in the reare now 16 enomous expansion of the world's nuclear arsenal. There are now 16 muclear superpower netions, each with the capacity to trigger the final destruction of mankind -- Armageddon!

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Control of the network itself resides in an enormous ama ophisticated satellite, codemanded Olympus—and control of Olympus esides in its Supreme Commander often called The Armageddon Man' to the Armageddon Man' In this incredible new game scenario YOU have just been cholsecome the next 'Armageddon Man'. Whether you have the next slipiomatic, military and tactical skills to avoid global devautation is comething you, and the World, are just about to find out.

Each game comes complete with a comprehensive instruction booklet, a colour viryl map of the World 2032 Edition (25' × 16'), two sheets of viryl re-usable flags to help plot the course of world

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BATTLE VALLEY

RACK-IT go blasting



SCROLLING shoot-em-ups one not a thing of the post down in Battle Valley the action is balling as ever, with tank and copter in the thick of the battle vanety of land and aur-based Weapons Installations oil blast ing away at you Choosing

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		and a	_		
		100			+
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		ACE		10.4	47

Battle Valley's scrolling is

Petri Connor

excellently done the action is

last and the sound effects effec-

tive All in all its a very good

ALIEN SYNDROME

Damp sauib from SEGA

PACMAN was a very comoulother classic game ideas say But we don't expect to see these sorts of games being released in 1988 on a new console system. We certainly don't

Alien Syndrame The overhead opposition the blasting laser different levels the envi-oblevel guardians what's new? Answer nothing Despite

playable but do you really want to fork out for this sort of thing all over again? Probably

Sleve Cooke

RELEASE BOX





TIME FIGHTER

CRL don't know what time It is

FIGHTING YOUR Way through sound hive a bod idea at all And if you've got masely animat-

s boich While the tiny figure you control is well animated leaves an arwful lot to be the backgrounds are dull the sound effects exectable. To-comif all the gamenlay is directful Pete Contor

RELEASE BOX DI-Mos \$145508 GUT HOW





DEMON STALKERS

EA go clone arrangina

CLONES just keep coming This keep your strength up one's pretty Gauntief-ish otlenng 100 screens of mous action as you aftempt to clear the Magic

Each of the many levels has stern, stock of treasure chests and bunch of keys It's a question of getting the requisite keys to get through to the next level while fighting the monsters and eating and danking enough to

An average example of the genre in all ways Cassette owners bear in mind loading times

Pete Cornor

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INTRIGUE

MIRRORSOFT join the fight against crime

CHEEZ Scant as dis yet conserver grame about peepers?

Took hass - words

They are indeed words tellow primate or rather they are commands - though pittalty few of them It seems we can ENTER (buiking) TALK TO WALK and SEARCH You can also PHONE and HAIL CARs The commands appear above the element of the

C64 Version Yet another attempt to may graphic action with testa-

5 IO FACTOR 7 FUN FACTOR ACE RATING 671

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display they seler to so I can ENTER that building for example Inade we might well encounter the ungodly whereupon we

engage their image in limited conventation. the ananoted lips of the waters on screen

Clicking the joyatch bottom will load in a new screen showing the Interior of FBI Headquarters. As you can see the graphics are largely begins as detail and the only interest at the parts somes hard TALKing to other characters - but they soon become repetitive.

That Hoppy is a digitised fizzag Probably because it's pretty poor qual-

You must find three objects and th location of a hideout. In doing so you wi locate your ladnapped brother and frustrate

Sounds a piece of cake to me looks Yes unfortunately it is replied the San to visit But there are three levels of pla some amusing conversation options and ti locations of the objects change with each

Locks like a game for mugs gru Stew Cooke (with apologies to Lestie Charters)

ACTIVISION fly sky high

Amiga Version Excellent craphics are the main altraction hera-

8 IO FACTOR 7 FUN FACTOR 7 ACE RATING 679

27 1 11 1 2



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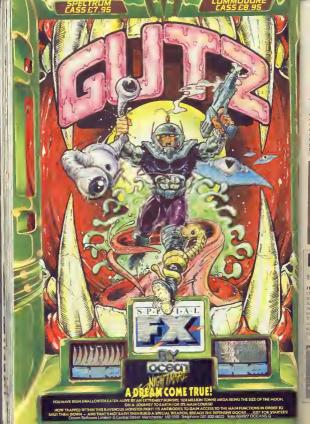




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FRIGHTMARE

CASCADE get traumatised

WHAT can you expect from a program endorsed by Grot Bags the Witch you might ask yourself - a bonna old platform Well that's what you get here alinght plus a few other nuagles as well Collectable weapons extra rumps and the like are all very well but half of them are proctrodily useless while the other half are so vital you might of them. The supposedly night-

RELEASE 80X

Q64 128	\$35505, £14.9561	CUT NOW
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Andy Wilton

CHAMPIONSHIP SPRINT

ELECTRIC DREAMS after course



most games so a re-desamable Super Sprint must have looked like a good move for ED. As it turns out this one's not purie the hot property you might have nicely emplemented but the range of track shapes available sn't too large - you com't even do the first standard Sug

CONSTRUCTION sets one

DELEAS

59178 History C / SPEC 25 9903

			-
E BG	X		
99dx	DUT NOW	II Company	4
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9801	DUTNOW	ACE RATING 713	type

BLOOD VALLEY

1 3 7 1	- 1	1	- 1
1.88	-		
1.88			+ 10
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Sprint track properly - and in any case different tracks can

long. What gripped about the

anathal was the areat control

and driving action but sadly

Andy Wilton

-				_
BΔ	TTL	ES	н	PS

EUTE get all hands on deck

IT MIGHT be a back of a let and a friend to play it with you that scare Computer Battleshaps s a simple game that you'll

- but never get too excited. · Andy Smith

	RELEASE	BOX	
AWISA	D9998t	OUTHOR	
SPEC	Only on completion (Side Collection)		
C64 128	Only on compliation (Eith Collection)		



TNIS one or two player game is based on the Duel Moster senss game is centred around a oneyou're playing solo you play the

GREMI IN'S manhunt

cept runed by poor gameplay · Andy Smith





Don't tell me - you've been green with envy over all those terrific games coming out for every machine under the sun except yours. Fret no more! Now Amstrad and C64 owners can unwrap their Mavericks as Digital Integration's ATF goes multi-format. Now Amiga owners can boil some monster skeletons down into bars of soap as Bonecruncher hits the 16-bit scene. And that isn't all...

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ST version reviewed Issue 6 - ACE Roting 813



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A crassic case at too tittle wo rate this one



ROLLING THUNDER US Gold 519 99dk

Spectrum version reviewed tisse 6 - ACE Boting 715 Ameliad version reviewed Issue 6 - ACE Bating 690

ACE RATING 725

BMX SIMULATOR Codemasless \$14 15dk

Atmost identical to the Armgo version and so

ACE RATING 810

AMSTRAD

PLATOON Ocean \$9 95cs £14 95dk

Spectrum version reviewed Issue 7 - ACE Rolling 530 C54 version reviewed tissue ? - ACE Rating 801

tother less satisfactory on the CPC. The game



ACE RATING 654



a hot property on the CPC Work out your own mission objectives load up with Maver



ACE RATING 959

version with tast moving session and good use of colour plus crucially all the game

ACE RATING 959

AMIGA

BONECRUNCHER

Superior Software \$14,95ds C64 vitraon reviewed save 6 - ACE Boting 943





BMX SIMULATOR

Codemosters \$14 95dk

ACE RATING 810

ROLLING THUNDER

US Gold \$24 99 Spectrum version reviewed issue 6 - ACE Rating 715 Artishad version reviewed issue 6 - ACE Roting 699

ACE PATING 730

C64

Dallot integration SI 95cs \$12 95ds

Spectrum version reviewed Issue 7 - ACE rating 956

The C64 Bobsleigh may have been disap-



IBM PC

Microprose \$24 95ds

C64 version reviewed ACE Issue 1 - ACE Rating 734



■ ACE RATING 756 Advanced Computer Entertainment 69



In theory, the joy of playing computer games is that you don't need to go off and find a human opponent: the computer itself provides the opposition. That's all very well for games like chess - it's just you and your micro on equal terms - but when it comes to Space Invaders there's something missing...

DOUBLE TROUBLE...

outre not seelly competed by computer of cell in Space Invades the computer of cell in Space Invades therein no semblance of equality, because it can keep theoremy clients of you oil night I will clievary sent in the end. The only thing in could as whether youll get more points than the next gray better you get killed - but thanks where the Jun starts. Its obvious zeedity of you'te

not on equal terms with the

aliens, you're still on the same

looking as other players. The game then becomes a multiplayer let's see who can get the highest score' effort the micro and software are now only part of the game experience, with all that human needling and boasting playing a major post in the proceedings The game involved can be very simple the sampler the better, some would say - and yet have you totally hooked, simply because you're trying to beat other people How much better would it

be then if you could involve the

other people directly in your

Games programment have been thysical to encourage this sort of group game-playing recently by a guildraft was or a group game-playing recently by a guildraft was or expenditure to be a guildraft was on severe at ouch Games with two-playing ordinary or the country of the count

and as such it isn't really any different from the single-player game the competition here is still just for high scores

True multi-plotyee games claim several people onto the same a multimisously, either competing of more meaning to the same a multimisously, either competing of more more more than to the risk and of game has a tap distribution of the same people with color of the people of the same people with color of two-player rooting games the off the range with Code Measure maning the multiple for the same same of the multiple same to the same than the same with Code Measure maning the multiple forms to must of less years.

Total domain of one-of-oile sport of a rotation and sports even the first of a rotation of the properties in the properties of the propert

Hybrid Aist com get a dosen of more people privings of occurs on how Mad Matter by taking of the Mad Matter by taking of the Mad Mad Mad Mad Mad Mad Mad which takes a consequence when the same of severy The sections of the Mad Mad Mad Mad sections of the Mad Mad Mad Mad sections of the Mad Mad Mad Mad sections of the Mad sections of the Mad Mad sections of the Mad sectio

BMX SIMULATOR

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| Codemnsters | Spectrum | E1 99cs | Amstrad | E1.99cs | C84-128 | E1.99cs | C84-128 | E14.99dk | Atarl ST | E14.99dk | Atarl ST | E14.99dk | C84-129dk | C84-129d

This marvellous simultaneous two player base-em-up has very scently made it onto the 16-bit machines and how! You have



Combal School-Americal, Waggle your way to glory

to compete oquants a trend for the computer) over a manamum of seven courses. The bumps and berms etc. all affect your hide resistancially and help to make the game incredibly addictive and bough Worth or too for Codemonies. Professional AMX Simulators which provides an even tougher challenge.

COMBAT SCHOOL

Ocean
Spectrum £7 95cs
Amstred £8.95cs £12.95dk
C64/128 £8.95cs £12.95dk
The latest in the long line of

Waggling athletics games This ones got a military flavour to it though, and seven separate

stojes There's no chance to cooperate with your trend, though as each pieryer plays especially a second pieryer plays especially in a comparison at the second control of the second count, and the scene is again to manufacture, and the scene is again to manufacture, and the scene is again to manufacture, the comparison to compare or chancel of the stoges, however, do clared to the stopes to compare or compared to the second country grant control of the second country grant country grant g

ORUIO I/II

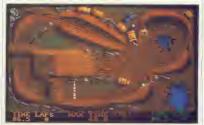
Firebird
Spectrum £7.95ce C64/128 8.95cs £12.95dk
Amstrad £7.95cs

Best of the Gruntlet derivatives as the draid copies with the forces of vel. In both games the draid is equipped with a number of spells for suppring enamers or counsing other effects in the angunal game one of the spells creates a sidelicial collect. Collect. — the second observer.

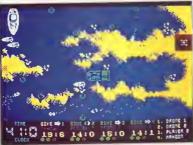
HARVEY HEAOBANGER

Silverbird
C64/129 £1,99cs
Americad £1,99cs
Specifym £1,99cs

Startlingly original and tramendously playable this body budget number combines elements of classic coal-op Qur and



INICK Servicings - Arrigo. Current properties the BREE courses and try to complete the set number of laps within the line first.



Jet Billio Simulator - Septiment, levels a friend process for sexta weinreports

and above an architecture of the state of th

IKARI WARRIORS

Spectrum C64/128 Ametrad Afarl ST	£8 99cs £9 99cs £9.99cs	£12.99dk £14.99dk £11.59dk £14.99dk
IBM PC		£19 99dk

A classic amongst two-player games because it not only tentures transfer action but demands cooperation and agreed tectus between the players its basically at two-player version of Commando with

tank driving thrown in

The hyblier moles that way up a downward scaling sower, includy camed with machine guri and greated You'll monounter enterly siddees pel boxes, tanks, beloopses greated includes and machinese the best feature is when you can hop that a frank and drive that anount with a senty while plays the follows safely behind until he can find is some time. Also measures

superbly as a one-player game

KARATE

C64/128 £6.50cs £12.99dk Atarl ST £19.99dk

Best of the many ST kondle chooem-ups that one new available. You have 16 sepander move to the yout opatiest you appoint, in front of such wenderful bookdrops as the Sydney Opea. House and Venno: This a pure competition stuff, you'll want to book and shay you appointed or much as possible to trapees the umper and you get nothing for showen misers.

JET BIKE SIMULATOR Codemasters

Spectrum £4 99cs Amstrad £4.99cs

Thus is one of Codemonters plus range which meeter that the said a couple of pounds mere than the usual \$1.99 that Codemonters coupled to be build groups out the usual \$1.99 that Codemonters on the pound and the second of the portion and expert in Jet Blue Sensition you and a thread concess on your jet buts compet courses on your jet buts compet droups counted the via compet droups and your plant but officially and the properties of the pro

MATCHDAY II

 Ocean

 Spectrum
 £8.95cs
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 Amatrad
 £8.95cs
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 C64/126
 £8.95cs
 £12.95ds

The definitive Socihall game to 8-bit macras. You don't get to compete past opported the occupater through - you can play opported to make the you have though - you can play opported to form of seemely by ground cenemy? I may lake or the twee of you can corpered by genoring up on the computer which makes to plently of him. Terratic past to footbally forms, and or game that neally shows how two-player options own add spanish to a channess standard format.

Plutes -Arriga. Should you steel points from your partner, or work logether for progress?

PLUTOS Tynesoft

Atari ST £14.9501 Amiga £14.9502

One of the first classic 16th shoot-ferm upp. Firbids 2-pids; shoot popular profile one double to fun factor. We've not quite su exactly how many levels of parties on the game but takes perseverance to go beyond level 30 on your ownodd a perther and your ownodd a perther and you'll raid.

get shifting up to level 60 and

9d)

200

than

me -

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8545 ,95dik

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recilly

However the best thing about the game is the way you con choose your tractics to suit band 2-player Plutos can be a competitive blast-out as you both struggle to grab more the other hand. If you're in a proneering mood you can work together very effectively trashmoving further through the lev-

Simple visually attractive and a real adrenation boost at the higher levels. Pfutos is pure ing in it that you haven't seen in

ROADWARS Melbourne House

Spartners £8 99cs C84/128 £9.99cs C15 0045 Arriga £19 99dk Amstred £8 95ca £14 95dk

A split screen gives each pigver in this zero-gravity 3D Pondmy fame the game uses great ing various strengths are on hand just in case you can't find a human being to play against

SKULLDIGGERY

Nexus (distribution now uncer-Atan ST £19.95dk originally

expenence some frustration since Nexus ceased trading recently and the future of

Stulidagery is in doubt That's all the bad news however The rest is all good there's a two-player option in Skulkhygery where you tight



Restors-Amgs Time swey the rogue penels or each other

It you'te affer out-throat competi son with a triend then Road-You take charge at one at two the continually scrolling roads of Atmageddon If you're leeling cooperative you can help each other to take out the roque pan els that are to be found at either sale of the road. But if you're feel. and mean you can compete with your friend and try to force him off the road. The Amirica version may be by for the best looking but the Spectrum version actually has more playability

ROOM TEN

C66/128 £8 95cs £14 95dk Spectrum £7 95cs

madly to grab as many dusopponent The screen is split hor wander into the same area you can then see each other on both

One of the best things in

double-diggery is however nothing to do with collecting ambushing your opponent and splotting him with a carefully nudged boulder just as he's about to collect his final dia mond. Of course yourd never do ves you would

SUPER SPRINT

C64/128 19.99cs £14 99dk Spectrum E9.99cs Amstrad £9.99cs £14 99dk

This simple overhead view rac

action is tast and funous and a lost life affects the both of you ply because of the way the game is structured. When you're



Soper Sprint - Specinsm - Gold these spanners before anyone else does?

tion in two-player mode. You want to come up ahead of your a tune-up - extra speed, better

...TRAZ

Cascade Spectrum CQ 55re Amstrad £9.95cs £1495dk C64/128 IDM DC £19.95dk

hope to complete any of this two-player mode you'll get nowhere fast if you try to compete with a friend because the consider that control of the bots

WAY OF THE EXPLODING

FIST Ricochet £1 99cs C64/128 £1 99cs

Ametrad £1.99cs

Should you own on 8 bit out for a high class beatem up then look no turther than this little number. Oppinglly released at full pace by Melbourne House you can now snap this Like International Karate you've got 16 moves to use against your opponent in the fight to

their competition fierce



Traz. Clid Rundon ball switching will test your reactions to the full

STRATEGY SPECIAL

What is it about strategy games that attracts a certain kind of games player? Could it possibly be something to do with long-term interest? With a bit of strain on the old grey matter? With the varying game-play from game to game? With the relentless strength of the computer opposition? People are beginning to realise that strategy games can provide much more of a lasting challenge than the average shoot-em-up coin-op conversion. When did you last lie awake all night devising a sure-fire strategy to defeat a particular wave of Space Invaders?

ince this airtival of 16 bil machines in the games market, the future for the stralegy genre looks brighter than ever Programmers quickly acquaint themselves with new machines and we shouldn't have to waif long before we start to see highly imaginative strategy epics. that involve the player to a degree nigh on imposable on an 8 bit machine. Rambird's Universal Military Simulator is just the beginning

So what's the current state of play on the stralegy games front? Here are the latest conlanders to test your mettle on the battlefield

OVERLORD

June 6th 1944 saw the start of operation Overload - the invariant of Normandy by the alked British. American and Canadian lorces This latest release from CCS attempts to re-create this oper alion, widely regarded as the decisive western battle of the Second World War Inspiration for the game was drawn extensively from the Max Hast ings back "Overland"

The program is for one player and allows you to control the allied forces only, though there are three difficulty levels. The object of the game is to land your forces, secure the beaches (to allow reinforcements to land) and then break out and reach the right hand edge of the game map. The game can end before then, however should eather side's effectiveness be reduced to below 40

The game breaks down into two broad phas-

all orders. Your limited supply of reinforcements can only come ashore at beaches which are in your control and which are clear of other units, Issuing orders is effected unit by unit, and myolves placing a cursor at the required destria tion, first for the unit's centre and then for each of its flanks. Once all the units have been posfromed imprement of the alies occurs - followed by any resulting combat. Then the German forces move and combal is resolved again

es - the landing of reinforcements and the issuing

The game plays well, and the screen layor is simple but effective, though mistakes are had to correct so each step has to be carefully consid ered. The easiest level pases no great problem while the hardest will provide you with a tough challenge. The additional beaches available to the player at the start of the game (those not used for the real landings but which easily could have been) allow the player to play several what it





SPECTRUM Overland

LOROS OF CONQUEST Florimne aris

C54/128

£9.95ce £12.95dk £14 95dk Up to three players can compete against ead

other in this game of conquest. The idea's well smple - en area of land is divided into irregular shapes (rike counties) and each player lines to conquer the opponent's teniones. There as some 20 pre-set areas including simplified map of the World, America, Europe and the Middle East. You also get the chance to design your ow maps or you could even request the computer's cenerate a unique map. Once you've settled of

which map you're going to use, the computer randomly distributes resources throughout the game area. These take the shage of small cons recresetting oblis etc. Next comes the diviving up of Its territores. The players each select a territory in lurn until all are occupied - their battle com-

There are several aspects of the game which the player can define, including the degree to which chance will influence the result of a battle. or the amount of resources available at the start of the conflict. The instruction manual is not term My helpful, but it doesn't take long to pick up the rules of the game, and once you have if becomes very entertaining - especially if you play with a



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07 EASE OF USE 06 06 GAME DEPTH 05 **ACE RATING 835**



POWER STRUGGLE

Atarl ST P14 99/8

Superpower politics raise their uply head in this PSS strategy game that offers one or two play ers the chance to influence countries through political, economic and military means. Each game turn allows the player to do as much ivading, persuading and conniving as possible with a time first. Once the time timit expresthe same man of the world undates and you start on the next turn. The game is limited to a few options only and the computer opponent is not much of a match for the averagely compe



ST - Power Sirriggle

OPPOSITION 05 EASE OF USE 07 06 GAME DEPTH 05 ACE RATING 620

FIREZONE

Amstred £12.99cs £17.99dk

This one or two player wargame set in the 21st Century comes complete with a scenaro designer program that allows you to design and fight your own battles. The disk version of the game comes. with rine pre-sel scenarios while you only get three on cassette. The terrain for each dame is divided into hexagens and the victory conditions for each scenario are roughly the same i.e. you have to desiroy all the apponents preces or force them to retreat. While the display is colourful, the screen updating is tediously slow as the screen is nt-drawn railber than scrolled. Firezone breaks down into four sections implying your forces, fir ing, warting for your opponent's moves and fring again. Unfortunately, much of the damage either. incured or dished out seems to be left to chance which narrows your scope for factical planning. A simple wargame then that provides a nice design lealure and a vicious computer opponent but not much eise

OPPOSITION DE EASE OF USE 06 DISPLAY 07 GAME DEPTH 06 ACE RATING 710



16-bit strategy explosion...

There are two distinct strands in the strategy world First, you've got the conflict soinano second you've got strategy simulations, if which the strategic element is, for example, commercial or political (as in the old game Dic

Most 8 bit stralogy software hau had to make compromises. Large amounts of data mean less room for graphics, and the depth of play can be limited by processing power. These problems do not apply to anything like the same extent with the new 16-bit machines, so what changes can we expect to see?

First better user interfaces Rainbird's Uni versal Mritary Simulator offers user-definable maps and a large number of control screens to help the player 'drive' the simulation. In addition. The extra memory allows target simulations and therefore preater strategic depth. Il also

means the program runs faster Second better graphics. With all that extra RAM and higher resolution, there's now room for digesed maps, diagrams, and even anima han sequences.

Finally onester death of play Software houses can use more powerful development tools on the new machines to produce more intecate software, with wider playing options All this adds up to the possibility of strategy games moving more and more to the top of the games charts. There's a good reason for this there just isn't any room in a 20p-a-came arcade environment for the development of anything other than sconng tactics - strategy sust can't enser into it. For this reason. Dureblooded strategy together with role-playing has always been the poor cousin of straight forward arcade action - but stand by for big changes in the days ahead



Reinblot's Uncornel Midney Sensitive on the PC - elen o phanges to come in strategy software?

Play By Mail (PBM) gaming has grown vastly in popularity over the last few years - adventure and strategy, trade and conquest, game-scenarios of all kinds and involving hundreds of players simultaneously can now be played by post.

here have been excellent human and computer moderated PBM new games displayed at the second Third British Play By Mail Convention they will be with us for years to

TIME TRAVEL

One of the most interesting new concepts in games (59 Junaper Bech HIII Bracknell Backs among the same 52 locations). Clevis stuff

BRAVE NEW WORLD

As less as computer programming goes this is dard Games Dark Blades could well prove to he a classic Developed from their board Playing (FGP) game. Within the computer Standards thousands of areatures with charac-

Over 100 pictyets bottle it out in the Land

tion of characters to the point where they are almost as capable as individual human play ers Standard reckon that the game could play riself - sadly the only way to prove that would be for every player to drop out and we

Exact details of the PBM version of Dark Blades remain uncertain at the time of going very cheap and the startup pack is VERY Games PBM Azion House Station Road Kings

TEAMWORK

PLAY IT... BY MAI

You sain a number of other independent members of the space corps in a journey clever bit is that the game environment has only fully-two physical locations but each location exists in many timescales (not neces-

Here's a good example at the way the came system works you tool a part of the crystal in location 36 during year 50 You to complete Therefore you deposit the crystal at a location in say the year 51 before trav-

When you begin this time-consuming action in the year 40 the crystal is nowhere to be seen - come completion of the action in the year 52 its there waiting for your Con-

become apparent when you conside the large number of other players all moving



While play-try-mail games continue to grow in popularity it a turn to see that some of the old favourities are at ill some as alrang an aver. The Tebes of Crare in all II regarded by many as one of the best trips games and It leaks to be going from alrength to strongth - two years after it a birth. You don't get many arcada games lasting that long

dem Games PO Box 127 Belfast BT9 5ED Northern Ireland) and Order Of Chaos (under development by Odde Fellows & Co tom

Both games enable you to play God in In Dubious Battle your cum is to become child daily (the Godfather?) by gazning power through support from the mortals of the world (Land of the Gods). The clever touch to the name is the use of two playing arenas

Order Of Chaps once launched will be equally microsting. In a nutshall this game takes over from the Christian God after Crecess of Evolution in the battle of the Wald Shapers against the Lord of Chaos. You now cacte the River of Life with the aim of creating a base for Crystisation. For too complex to sum up in a single page seview but watch out la further coverage in a future issue of ACE

So there we have it Advanced Computer Entertainment in the world of ment See you next month

rs

chief

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MAKING MUSIC

stort people can part of a doll-large time on a legislation of street. But a class of a large of a large of a street of a class of a cert MESI dilever you is report on man, for your own must other people on man, for your own must other people on the control of the people of a large of the control of the people of the sounds and a programmable in pint own of the control of the control of the wift in early or must be for the controlly or must be for the contr

distributions, other or in extracting of distribution between the control of the incresion (SAPP), will allow the guitaria cosine for distribution to the control of the superior costnic set to see the cost of the cost of the superior costnic set lay or synth - most manufacturiner garsion. In least your dorst view in here to lay or synth - most manufacturiner garsynth without did the expensive bits synth without did the expensive bits leptonors bustons sides etc - their takes perponal bustons sides etc - their takes perponal bustons sides etc - their takes (OUE quitac in vacanque) on the control OUE quitac in vacanque) on the control OUE quitac in vacanque) on the control of the con

Expansions can represent tementdous bengations. The Baland MT22 for example has much of the inference country of the \$1200 b56 synth but costs selly \$450. If gives you an entourlanding 32 votors to play around with in full steme literally oth orchestra under computer, control

SAMPLING

Sampling is the conversion of real world sounds to numbers and the subsequent manufaction of those numbers which allows MEX instrument. There are many sampling keyboards and expanders now available and their potential for creative music making is enormous. They enable you to take any recordable sound or dropped dustion lid or your kid brother's whining and play if from a keyboard or sequencer. They work particular ly well with short sounds and so are great for sequenced drum parts but a good quality sampler will allow you to re-create any instrumental sound as well as giving wide scope for experimenting with your concerto for scalded out they are senous tools as well as



Seria Mestergueze sequencer – a fully featured 32 track reconfer for less than the origin of a seed storeal

PRACTICAL MIDI

Even if you don't know Middle C from the Mediterranean, MIDI can help you expres yourself musically in ways you never thought possible. Part two of our no-nonsense guide to home music-making continues as Keith Ansell looks at the different uses for MIDI and ways in which you can exploit the new technology.

COMPOSING/SONG WRITING

Sequences make excellent song-wring take, even of you have sever composed of tame below. One experience is to start the sequence excellent in red their sequences excellent in red their sequences are sold in the sequences to be a several several control of the sequences to prevent when the several seve

Purthermore, with software such as PRO24 for the Alam ST anything thus

g recorded can be edited in music notation
a form and printed out as a score for others to
be play



One of Stamburg's Pre-24 edit scriters, with full transport p

SEGUENCING

Sequencing software is just jurgen for a missoal word processor-cum-multi track recorder that eachies sound data to be manapulated of well. There is a wide range of excellent sequencing software available and it should from the heart of a MIDI system. Data can usually be entered in servical ways.

♠ Resilience recording the sequencies records the notes as you play them on your MIDA metrument. Recourse it is dated that is seconded not found it can be played book through any other MIDA metruments of the played book through any other MIDA metruments of the other played to the country of the record of the other during playbook in ways that would be impossible by any other metrus. So you can play a tune on your MIDA quitar, then replay if the played that the played t

Suppleme recording Several possibilities depending on your sequencer—enter notes one of a finise from an instrument specifying the time varies for each note or create a visual poster by entering notes on a goal or enter poles in music notation form (great for creating your own version of anything politished as sheet music—just transcribe the dols then orchestorie).

The best thing about sequences is that they enable you to edit you playing and really get the best out of it - altering the sound until you get it just the way you like it Without MIXX the only way to do this would be to spend years investing in expensive equipment and retining would be to spend years investing in expensive equipment and retining to your playing its changuage.

MULTI-LAYER SOUNDS

MIDI allows you to play or sequence up to 10 different instruments set to different channels or you could have sixteen instruments playing the same thing on one channel. This might be ful by adding to it a homes trumpet or another synth or expander, especially if one sound is slightly detuned relative to the other. Or widely-contrasting sounds can be mared to create

If you have a keyboard with say 100 pre-set sounds then the addition of a low-cost expander such as a Yamaha DX7 (which has 32 resident voices) will give you 3 200 possible sound combinations with infinite potential for new combinations by loading new banks of sounds into the TX7 If instead of the TX7 you had a TX812 which allows you to trade the number at notes played simultaneously (polyphony) for the number at different sounds nomic With 8-note polyphony you could have 12 800 2-layer sounds (the TX817 has 128 combinations, and when considering the monophonic possibilities well have to stop the maths due to shortage of space for lengthy sinngs of zeros.



A lot of norminated can be littled at the small season and the little stand crashles you to keep everyoung as sync.



Stamberg's Fre-Creativ affects you to will sounds on the CST TX2 TESTS and TESTS - and strange them in bunks as well

SOUND EDITING

One or the reasons many of today's highbuttons used to programme them are made to perform several functions, this keeps the

ments via attoriable software that often For example many editing packages will sounds and blend them together until you between Suddenly the crome lask of syn thesang becomes more comprehensible and you can build up libranes of sounds on

disc which the software allows you to bromsusers or owen - if the sounds you program

RECORDING TO TAPE

Sequenced compositions can of course be stored as computer data on disc or cossette, howplayable form as a storeo (sound) cossette. No problem here - many MED; instruments have an audio out sockel that you can use to record directly only tape

SO WHAT CAN I DO WITH IT?

It is hard to think of a more extistying and enjoyable use for a home computer than awaiting mutar, but in case your personal satisfaction is not enough, here are some kiecs for possible

- ound effects and incidental music for amateur theorizoil performances.
- Education it is nearly impossible net to learn more about music while using this gran, and like all the best learning experiences it is happy southying.

 Instrumental best learning experiences it is happy southying.

 Sound lapse for local groups cub agost amounts, trausic and movement classes, play
- "Muscu to Measure" background music for parties, party-plan listing, local society
 - Practice topes for eitigers at instrumentalists with the past to be practised missing from
 - Soundhooks for home videos (An SMETE sync unit may be needed for that one
 - mo trapes for singers/songressives repose songs for down-loading via modern to Micronet's Music City Service

Two recently purchased on Atom 520STFM and I'm interested in tinding out what it can do as regards music | don't have any MID! equipment yet though . Jon Whitlock, Sulfolk

The ST is currently the world's favourite music but because the ST has built in MIDt sockets

The main applications would be in

If you want to really test out the St start

I have an Amstrad CPC6: 25 and Casio MT-2:0 synth - how would I connect them together? I saw a package called MIDITrack at the Amstrad Show but since it is \$69 1 decided to watt a bit and look around". Daniel Berman, Liverpool.

As far as I know you won't persuade the CPC CZ230S or similar MIDI synth once you've

I have designed and built a MIDt interface lor my Amstrad CPC6128 and want to use the to re-program the voices of my Casio CZ2305 and program the shythm section. . Brian Glilon, Chatham

Congratulations on building your own Intercmy sounds on the CZ2305 other than tifle lost EMR or DHCP would be suitable provided. your interface is fairly standard memory 99 is usually used as an edit butter while you're

The CZ230S cont channel incoming MIDI

I own a Yamaha DX 100 MIDt synth and an Alori 520STFM with Super Conductor 1 wont to make my synth multi-timbral to make the most of the 16 tracks available. Mark Conolly, Dumbarton.

You can't make the DX 190 play more than

MIDI PANEL **OF EXPERTS**

The letters we've received range from four-line requests for information on the sum total of all software available for a particular computer, to four-page epics about debugging existing MIDI systems, Your MIDI Agony Aunt is Mark Jenkins.

FB-0t module will do exactly that It our hundreds of sounds provided the total is

Is it possible to connect the Almi 520STs 'audio out' socket to a hi ti to improve sound quality? I own a Casio CZ230S, CZ5000 and Yamaha Clavinova and would be grateful if you could recommend some affordable softwore to use

Craig Donald, Ayrshire

Buy a space monitor plug from your tocal



The been a very low-tech lead guitarist for many years but now have an Atori \$20STFM with Steinberg Pro-24 software, a Cheelah MXSV mother keybord and Roland TR505 drum machine Can I sync the Atari or 505 directly to one track of my TASCAM Portastudio? Can I use the Alari or 505 directly to one track of my TASCAM Portastudio? Can 1 use the Atori as a sampler and control the samples from a MIDI guitar tike the Casto? I'd tike to be able to sample my favourite guilar sounds and sequence them. Where are the Alart's audio input and output ports? How can you record samples with them? Can the new Cheelah DPS pads be used to trigger the 5057 How could I link up two MID(controllers such as a guitar and a keyboard into the single MIDt input of the Atori? Geoti Rees, Cheshare



time the TR505 will sync to trape and will then clock the Aton for playing back MIDI data in synchronization with music on tone

There are a couple of cheapish ST based of them will let you simultaneously took up Lynex at around £1 500 Your best bet is to buy a second-hand Akai S612 sampler

Roland Octapad will detinitely do the job

plunging you'll need a MIDI switcher or combine incoming note data with time sig-

I've played electronic keyboards for some time but will soon be buying a Yamaha DX75 - what can I do when it's linked to a ZX Spectrum via a MIDI Intedace? . Steven Strassheim, Tyne & Wear

There are plenty at Spectrum interfaces and bet but that won't be available (rather cheaper than the DX7S at \$699) until the

Having just bought some MIDI keyboards my funds are having enormous trouble trying to sort out reasonably priced sequencers'... John Rashman, Gwent

Since you mention the Cheetah and XRI assume you're using a Spectrum - you'lt you haven't got a Commodore 64 ar ting cheaper too - Cheetah are just about to

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TRICKS 'N' TACTICS

In the merry month of May what better than a multitude of maps? Platoon, Terramex, Bard's Tale, you name 'em - we've got 'em, plus much more besides.



AL OF

SCREAMING WINGS

This cheat should help any ST awners who are having prab-

lems with this game Simply press and hold the left mouse button while you're playing the game and wiggle the mouse until a rad box appears in the top left. Now all you have to worry about are the large

JEROME HOPEFULLY, Houghton Conquest.

INSANITY FIGHT

A handy Amiga cheat to

advance levels To proceed to the next level whenever you feel His II simply involves you holding down the two mouse bultons, pressing the joystick fire button and the Likey all at once. Easy etc?

TAHIR AHMED, Chesham

BLACK LAMP

For Infinite energy for this ST arcade adventure, simply type in the listing, save it, insert the Black Lamp disk and RUN. The game should then load as normal.

50 del seg-0 90 for n=&h6a000 to &h6a065 step 2

100 read a poke n a

110 next n 120 chirat-316a600 130 call chest

200 data Ah42n7 5h7e20 8h3907 5h4278 5h8260 5h7001.

210 data ANA297 ANSIOD AN4267 BN4297 BN4df9 BN0003. \$20000 \$220e 220 data

BlackLamp

\$13/3c &10008 &14e4e,&13d7c,&16058 &10156, &6411a.5h0010

225 data \$54319.850003.650150.6532d8,8551cl,85ffc.85 4ed8.4h7000

240 data

\$h31c0 &h08d4,&h21c0 &h08dc,&h31c0,&h5944, 8h21d0 8h594c 250 data

8 h203c 8 h4e71 8 h21ch 8 h6d5c 8 h31fc 8 h4e73. Shina2 280 data &h31c0,&h122e,&h4ed0

MARK LAWRENCE, Basildon

FREE SOFTWARE!!!

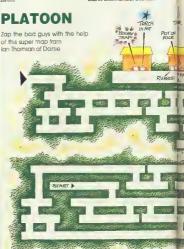
All you have to do to earn yourself FREE copies of up to SIX of the latest games for your machine is send you maps, tips and pokes to

> TRICKS 'N' TACTICS ACE **4 QUEEN STREET** BATH BA1 1EJ

This month's 'tip of the month' onze goes to Ian Thomson of Dairsie in Scotland for his marvelous Platoon map Ian earns himself copies of Morpheus, Ikari Warriors,

Professional BMX Simulator, Strike Fleet, Power at Sea and Championship Sprint Now that's a prize not to be sneezed at! Paul Knight and Darren Clarke both run away with a copy of Ords for their ST's. Alan Wilson and Mark Lawrence, however, win themselves copies of Dungeon Master and

Martin Duckett gets ATF for his Spectrum So what are you waiting for? Get to work and earn yourself some software.



JET BIKE SIMULATOR

This Code Masters Plus gome now has a poke for Spectrum owners that will ollow you to qualify for the next roce no matter how terribly you ride.

- 10 PRINT AT 10,0,"START TAPE"
- 20 LOAD "CODE 23296
- 30 PCKE 23373,91
- 40 FOR F=23400 TO 23407
- 45 READ A POKE F,A 50 NEXT S
- 60 DATA 62,201,50,20,106 100 RANDOMIZE USR 23296

MARTIN DUCKETT, liford.

BACKLASH

If the missiles etc are causing you to come to grief more often than you'd like on your

ST, then try this poke. Type in and save the program, then insert Back lash disk and RUN. The program should load and run as usual but you will be graced with inlinite

- 80 def seg-0
- 90 for n-Ah6a000 to Ah6a045 stan 2
- 100 read a poke n a 11@ next n

Ives.

- 120 chest-&h6x000 130 call cheat
- 200 data
- \$h2f3c \$h0007 \$h8900 8h3f3c 8h9020,8h4e41, &h4df9 &h0003

210 data

TRICKS 'N' TACTICS

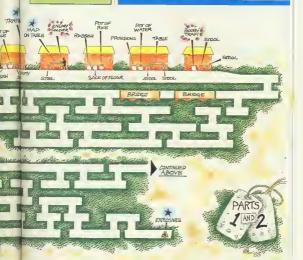
\$1000 &142a7 \$133c \$10001 \$120e, \$123c, \$1 0004 &h0002 220 data

&h4e4d &h41f2 &h0008 &h2d48 &h0084 &h4ed6. 8h41la.8h000e

230 date &h43f9,&h0002,&h7dpe,&h2288,&h4ee9,&h016c,

Ah4239.Ah0000 245 data &ha3e3.&h4e48.&h7000

MARK LAWRENCE, Basildon





DRILLER

If the tips from Incentive's very own lan Andrews in ACE Issue 5 weren't enough for you Spectrum owners, then this poke for infinite diffing power and shields will prove Invaluable Smply type in the program, RUN if and load the land at a many and a many

5 CLEAR 32767 10 LET T-0. LET W=0

ST.

15 FOR F-65000 TO 65029 20 READ A POKE F A

25 LET T=T+W*A 30 NEXT F

35 NEAT F
35 IF T-0-7698950 THEN PRINT "ERRORI".
STOP
40 PRINT "START TAPE"

45 LOAD "CODE 85088 50 POKE 55108,194 60 RANDOMIZE LISE 650

60 RANDOMIZE USR 65000 79 DATA 205 64 254,33,249 253

80 DATA 17,100 255,1 13 0,237 90 DATA 178,195,46,255,175,50 100 DATA 118 188,50,17,193,50

100 DATA 119 188,50,17,193,50 110 DATA 126 191,195 164,151 DAVID MELLISH, Bromley ENDURO RACER
A nice little chect for ST own-

A nice little cheat for ST owners here.

When you first begin to play Enduro Racer, after the countdown type the word CHEAT in on the kisyboard. Having typed that in pressing one of the following keys will result in a specific effect

pressing Tigres you an extra 10 seconds to complete the race

pressing S advances you one checkpoint.

pressing F gives you turbo speed (210 kmh)

DARREN CLARKE, South Normanton

TERRAMEX

Not only do we bring you a wonderful map of the gome, but a complete solution as well (use at your discretion)

GET WACUUM CLEMER IT RIGHT IN, CETTE LIST WACUUM CLEME ELLIGHI, LI UN QUAN ON LEFF CLOUD, DEF FURTE LEFT GET BARREL DI TOWNT, IR USE WACCUM CLEMER, UL JUNIO ON RIGHT IN ST. GET MACHICLE, R. GET MAGRILLA R. D. L. GET CRACEET IN ST. GET MACHICLE, R. GET MAGRILLA R. D. L. GET CRACEET DEE RINGER, LIST ST. D. L. GET CRACEET MOS SENSES, SUMP NEXT TO MONSTER USE FULLE, DOWN ROPE LOSE FULLEY L. D. GET MONSTER USE FULLE, DOWN ROPE E. LOSE FULLEY L. DE SPROGE L. U. R. P. IN USE SELLOWS. BALCOOL UL JAND ON CUST FOR RET PROS. GET MACHICAN TO GET MEDIUM SELLONG MARKEL USE LANGE BARREL GET IN CAN TO GET MEDIUM SELLONG MARKEL USE LANGE BARREL GET IN CAN 

Another insult-packed issue of latters - most of the nastiness stamming from your views on the touchy subject of piracy. We always want to hear original thinking on this subject; but if you're going to insult someone let's just try and keep it relatively clean, sh?

Elsewhere, there's stirring news of Mums playing games, and a long letter full of wisdom from north the

border. Whatever you want to say, just get it down on paper and send it to ACE Letters, 4 Queen Street, Bath, BA1 1EJ. And don't forget to specify which computer you own; you never know - yours just might be one of our Prize Letters.

& Mum's the word

I thought I would write in to confirm Locotron's statement about more malure computer playors and maybe other readers out there will confirm their statement

Lithink Sentinel is still the best 3D game I have nearly 7000 code numbers on XQR I have six screens linished and in Doller I have found 13 locations so far

I am a mum of 45 years young and spend most of my time on my Commodore 128 as my lamity are now grown up and I find a computer is far more enjoyable than knitting or sewing or any of the other conventional hobbies that are popular with my age group

Rarbara Hudley Newport

Wall said malars. We're gratified to see that you like your games as much as the young tuns - and we're sura there will be plenty more of the kind of games you like in this coming months

\$ Singapora sling Congratulations on a well produced

and information packed magazine 1 thoroughly enjoyed reading it. The ratings given for software reviews are often fair and honest - unitso some other magazines that are somewhal brased lowards line Amstrad machine

In issue 4 it was mentioned that the vertical and indizionial scrolling on the Amstrad is rough end jerky 1 must disagree with you on this point It should be pointed out that with careful programming the scrolling groblem can be overcome Take for examples. Tranfor Super cycle Mission Jupiler, the scrolling is phenomenally smooth on the Arristrad Really it's all dependent on the programmers - the program can either be in a class of its own on the Amstrad or infenor in comparison to other 8-bit formats.

Keep up the good work. I have faith that ACE will outsell and outlast the other magazines on the

David Work Singepore

What precisely do you mean by often' lar and hones!? They're always fan end honest. We take your point about the Amstrad smoken the genes you menboned are all excellent in that respect But you didn't better to mention the milions of games that don't come anywhere near that standard

& Load of old Cobol

Could you please help me find a copy of COBOL for the Spectrum 48K I have been trying to buy a copy for ages but cannot find any one who produces it for the Spec-

Biocerdo Nardiol

We find to find one as well - but we couldn't Frankly the Specty of not the kind of machese that you re likely to find copies of Cobol for Then there's the point of whether you should bother with Cobol at all many computer professionels believe it's an awkal language that should be abolished forthwith

· Piaasa plaasa

Guess what it's another one of those letters that fill out your letters page with pleas As a dedicated Atan ST user,

and I know there are several thou sand more out there, I wish to join a User Club. The thing is the dosest club to me is 10 miles away. This is okay when you have a car but as I can I afford one I cannot make it to their meetings As the Leeds area is lacking # Hear Club several female and I

have decided to try and put one

together We have at present around 12 people definitely interested but we shall need a lot more to make if a

One thing must be pointed out now This venture will not be for those who intend purely to np-off software it is for those who are dedicated to learning how to use their machine to the fullest. We hone to have guest programmers from development houses along to explain the ins and outs of program mmg and selling software of com mercial quality. If it is also possible we will offer a P/D service. As the ST is an expellent music machine (ie MIDI) musicians who use the machine are also welcome. I use my machine for music as well as games and writing these letters Other ideas will be greatly appreci-

Anybody who is interested pleaso ring me on (0532) 67(329, after 5pm any weekday evening or daytime during the weekend and let me know. If you don't have a phone, write to the address below We will organise a meeting

(anabably et a pub depending on the age of people interested) and take Things from there Please support this if can only

do you good

Peul Cosby 4 Stalion Close, Gerlorth Leeds, LS25 1PT

We're olad to print your lotter to get you going if you want to edvertise later on. then why not make use of the Pink Pages small ads?

\$ Amiga quaries

I here owned my Amiga and Mon for for around two/three months since doing so have spent around £6/£700 on software, the majority of which is American import A lew questions

1) Can we register our warranty anywhere in the UK (Sierra/Info-

2) Anywhere the help books are

Also, I'm thinking of splashing out on a coleus printer - which one?

Metthew Green Welloud

You should be able to register any lafocom games with Admission who distribute that software in the UK Hert books asser't wadely awardable in this country your best belief to read The Prignim or le consult the people elfering help on advet nures in our Pink Pages. A decent colour printer would be the Star

I believe that I am older than the

EC10 Colour which weighs in all around £300

 Give it a rest I own an ST No I haven't got TOS. Iroubles but that's not a joking mat ler I think that S Whight and his ST bias? letter in issue lour, is bias I ve looked over many magazines since I read this letter especially ACE in the reviews for ST pames There is always a bill in there, some limes rivalling the two computers But it still gets the Amas on the act

Anyway, my Inend owns an Arriga but we don't argue about which has the best graphics. Now the ST can produce 4096 celours en the screen all the same time this rules our Wright's boast about the Arriga, but it still has the preater processing power mits bitter. Agam the ST has a built in MIDI for oreat

am trying to keep this a non bas letter unlike Whatts quote Bull if you want something really special

get an Amiga I am really led up of seeing ST bias, or anti-Amroa letters. Why can't peeple give computer mags a rest? Let's lace it, they do try to be fair. Keep up the good work ACE.

SClerk New Meiden

A little friendly rivalry doesn't do any harm does it? In fact, if every-

Extremely confused

body was perfectly happy, we

wouldn't have much to write about

I am getting extremely cenfused please help me I own an Alan ST FM and I buy several magazines to get information on which sollware to

> When I purchase ACE Lotton see a review of a game that you Ihought was very good and I might decide to buy if I gel ??" <<8%" and it gives the same game a low

> mark and it puts me of It happens with other magazine as well I don't know what software to buy any more I am sure other people are getting the same prob-

James Mellor Badford

Dear Confused The answer is simple ACE is notif and all other magazines ere wrong Keep taking the mediane

· Very rude indeed

I am a new Atan ST owner and was hoping to do some programming But alas when it arrived there was no miormation on pregramming I did get a booklet on advanced ST basic but that was no good for me because I don't know how to write the simplest ST basic programme anyway Perhans you could tell me if there are any books of the like enthis subject

The price of games is really expensive £20.25 for just one game is just not on I know you can shop around and buy them lor £15 or £16 but slift it is very expensive You do get a really good game one erally, but the seftware compenies must get a lot of profit

Now start to greyel Last month you reviewed Black Lamp by Fire bird You put the dame down because of its highly impractical contrels. I bought the game last menth and I am enjoying it very much The highly impractical controls are excellent, even with the keyboard I have never found any thing which was maccessible so perhaps you were not trying haid enough I think Black Lamp should have got at least 915 not a miserly 813 Shame en you! I hope I have

not been too ruriet. Ros Morrie Honmouth

Yes you have been too rude but we're used to that kind of thing here. We sland by our review of Black Lamp 11 deluntey wasn't o

Words of wisdom

majority of your renders and as such have perhaps had a little more time to develop an overview LETTER of the pattern of computer sales and perhaps my reflections may OF THE be of help to others In my youth I became one of MONTH the earliest owners of Dragon 32

(an early sleam powered comput or) because I realised that the own dits were right and that this machine with its 6909 chip was to be the standard by which others V2000, Beta and VHS. The first were judged. How right I was Everything else seems lie have been better than it. As the years rolled by, it came time for me to stop merely playing

with computers and to use them for the purpose for which God mtended Senous playing Obvi custy the simple Dragon would and so I cast my aged eye around for a meriteneus machine to supplant it and I fell that in the Amstrad 8128 I had found such a machine and that this was one

It is now obsolete. Nonetha less my Irusty Annold will not be replaced in the near future. The aged eyes are now slightly jaun diced and for their ewn protection many of your readers would be Well advised to develop the same outlook at least for a while. The

ative infancy buyers should be cautious about holding their breath and pariging at the linst or the cheapest knick knack that cernss than way I one as an example of this video recorders. Organally there wast three main types i.e. two are respectively dead and dymg Now only VHS remains III you think that this does not apply to computers, remind yourself of The One Almos, Tatung Einstein. Acom Atom and Electron, Dragon 32. Aquanus etc etc The main premise of whether or not to buy a new machine is not how good it is but hew long it will last? Only time will tell. There were many perhaps better computers on the market before the IBM PC But they aren't There now Secondly I would suggest than

the current beam in 16-bit cames software is probably a transient phonomenon. The example that I cite for this is Amstrad software This sold like hat cakes when the CPC's were mireduced, but tailed off to a lower level and now runs very much in the wake of CS4 and Spectrum sales reflocting the relative numbers of the machines II irmly believe that 16-bit dames are doing the same Therefore, either 18 bil buyers are wealther or they are buying software for ther Machines because as yell they have yory title

Thridly, any prospective buyer should consider whether or not he er she could afford le upgrade (il possible) or completely replace

arry machine if and when the manulacturers replace it. Here any one of a number of cases could be cried but perhaps one need only look so far as the bewidenno plethora of ST Vanants already on the market to wonder how lend any one of them will last

8 bil rsn't dead vet il know that loft yes engywys braid ay udy before but the lormal is, after all is said and done both versable and more importantly popular. The sheer volume of these computers m the country speaks for riself

There is really a massive amount of software presently on the mai ket 8 bil owners are not prepared to pay full price for programmes any more because we have all bought a quality program al some time or another and have been most dreadfully disappointed by an ungiavable name that soon nated There is no reason to suppose that t6-bit owners will not do the same in due course II ST, Amiga and the prospective Amstrad owners are suppired with impeccable soft ware I will be proved wrong, but

frankly I deubt if Robert Mointrye Udny, Aberdeenshire

Och, ye've had such temble bad kick theil I cannel find it in myself to withold a prize from ye - it only because of the torbeerance with which you fire the other cheek to the blows of fortune. As for hedge ing your bets on 16-bit, we're conwood that those machines and their software are here to slay But we don't believe that 8-bit is dead there's plenty of life in those old dogs yet

900 game, although it should perhaps have scored a few more points. As to beginners' books on ST Basiu Alan are releasing e new version of their Basic Source Book, which should be available as you

 Librarian Please could you answer my questions. How would I go about starting my own software hire library? I understand that I would have to get written permission from software companies but how do I do d? Also if I then gat permission, do I have to pay full piece for a geme and then give them a percentage of whet I make? Please answer my questions as it seems like a good idea and I want to know if it can work. In other words, will have to pay out a for tung to get it off the ground?

Also do you know of anyone benome out a 16-bit magazine? The CBM64 and Specuy and that Amyrad have all opl macazines all on games, for thamselves so why not the ST and Amiga? There usn't be eny excuse for no software sure ly 'cause all the software houses are backing the 16-bit computers. so come on people give us a

games magazme Please print this latter as five written to loads of mags and never had one conted. My last question why is ACE £1 50 when others are much cheaper? Evan so I am sure leads of others think your mag is

Jason Allan Oxlon, Birkenhead

Our advice to you is - don't do it The whole business at whether you can legally here out soltware is very Inchy And you have to admit that a tot at barrowers will be most idealy to copy the stull while it's out on toan As for a 16-bit gemes magazne what on earth do you think vau'te reading? OK sq we give m depth coverage to 8 bit stuff as well, but ACE is second to none in rts coverage of the 16-bit entertannment scene. Why does ACE cost £1.50° Because its prined on plassier, better quality paper because it's full of beautiful colour screen shots, because every ments we affer superb prizes end special promotions. Let's lace il the chance of winning an Alari ST or loads of software is pretty aftrac-

· Small ad anxiety

My associates and I are attempting to establish an Atan ST user group We would like to place an advertise ment in the new 'pink pages of your

Diary of a satisfied customer

January 9th 1988. Get ACE today The February issue's great Tha competition is lab and so is the graphics uhapter Just look at the artwork. The 16-bit machine graphrus are so skillful. Oh, how I wish I could have an Alari 520 STFM my Commodore 64 is well out of date Idea!! Maybe if I enter the Arcada machine competition, I might wan I could then sell it and buy an Alau Fantasiu, why didni I think of this before, Hello, thought you would ualch me out I'm not that dumb. I've already read the whole issue Tried to fool me by putting the Xeron picture in the Sidewinder paragraph. This ACE compelition is so easy Just fill in the entry form stick a stamp on it and pop it in the post. I'm bound to wn! I sent the form off straight

529STEM After looking at the ACE issue again I noticed adverts second idealf I could self my Commodere 64 by advertising in ACE and than with the money I get and the money I've saved I uould afford an Alan Look! it's free to advertise I d better send my advert off quick

away Soon I would have an Atan

PRIZE LETTER

In This idea is nopeless live adventsed my mruro in other mags and no ones bought it. Oh well its worth a try after all its

Feb 6th 1988 16am Gol ACE March issue today Quick turn to tha pmk pages Search the columns for my advert. Ah! There it is How professional it looks Mind you, look at other Commodores advertised, they are much chapper! I doubt if fill sell mine now. This is so frustrating For a whole year I ve craved for an Alan ST Commodore's are now my Iriends have Alans and I am tiks an ugly duckling among swans. Every time I see a 16 bil rescro I leel like committing murder

Feb 6th 1968 6pm Ring ring ring goes the phone I dash downstars as last as my logs can carry me Hallo', I say 'Hello says the replier I'm phoning about the Com modore 64 for sale. Great! I gave The phone to my dad to do all the technical stuff. Yes they are buy ing Great, fanlashu, superb, what uan I say? Thanks ACE Later that day I received two other phone calls about my Commodore

Now I can afford my longownlod Man and I owe II all Io ACE Now ACE is charging £2.50 and I detertoly recommend it II pays to adverted with ACE My problem is solved. I no longer page up and down my room but pley all night and day on my Atan

J Writrems Strfford Clavs

Alter this long and enthusiastic tala of enterprise rewarded t a software prize for you to play on that of ST Romember lolks- it pays to use the Prok Pages

magazine However thera is an apparent hart of 30 words for user groups but I have noticed that some of the advertisements have axceeded the limit. We leel that we require more than 30 words in our schartcoment. We should the to know if this is possible and if so, what is the extra charge?

A J Smalas Markel Werniston

it costs £2.50 to place a 30 word small ad Di - the small ads supre mo (or suprema?) - says that if it's just a few words over there proba-Ny anat he env problem if It gets much bigger just pay hace £2.50

· Caning for Commodore

Can you say whether thare is or isn't any fruit in the rumours of Amstrad releasing an Amge Type home micro? I think that if it was released if would mean a sentual uaning is in store for Commodore. maybe aven bankruptcy! And where would this leave CPC owners, with Alan Sugar's business policies they may end up "on the rocks" Do the manufacturers have to

be so hard on each other and

indeed on us the multi owners. Are 8 bit micros dying? This is a question on many micro owners minds. Are they or aren't they? I know new 16 bit mauhmes wipe them all over the road with great graphics and sound, but will the 8 bits be losing releases to others (16

Gaorga Laird Loughborough

See our news pages for more on the Ametrad 16 bil numour 8-bil micros might not be as healthy as they once were but I wouldn't say they were dying

Is heavy metal a killer? I just want a word on constraining

Many people today think that come is on the increase and it is due to hasyy metal ety. This is utter nonsense, as the come rate has slayed the same for centuries it is only their think there is more

We then go about and bizme it on lifting and computer games that deput sex and violence Computer gemas as a rula make a plays? more aggressive, but a player must be aggressive in the first place to play them. Games with a lower res olulion of 320 x 258 or less, would not be unnsored if they are only Those that exprass extreme violence should be userspred such as Death Wish fill and then it soduld be censored to over twelves. Gamas with a higher resolution should only be censored if the graphics are good and show multiation or nakedness and then be given a 15 certificate Any games that don't come under this category but still show violence should be censored to over twelves.

Companies haven't bothered with it so fair but as 16 bit comput ers get more used, censorship should be imposed due to realism Most authornies forgal though that upmputer games are for empyment and not for filling our bloodthisty. dosinos. Thanks for letting me speak

Petrick Degahem Nawly, Co Down

Utter nonsense isn't the exclusive preserve at those who throk onto rs on the racrease

· Where are the consoles?

First of all I would like to command you on an axuelient magazine full of software reviews news and wews which ail add up to an excellent

magazine As you are called ACE (Advanced Computer Entertainment) I fell I had to write to you to ask you where the games consoles are in your magazine. Surely, since these are dedicated games machines they should get some coverage of the software available for them. I own a Sega System and buying games for it is rather difficult as I have no chance of seeing them. beforehand, so maybe you could review a pame or two a month (as I only buy one game a month or sol to that people like myself can bell the best software for our games system and give the worst ones a mas (as £15 - £20 is a fol to pay for a came that will only appeal for e-

leardays)
I do think that the system does
diserve some coverage evan if the
number of games titles in relatively
small at the increases on low about

Jon Healy

Ion – we re never neglected the consoles but timer haart teen much lens studie income to remove We did have Sega reviews in our last issue. To make sure you don't miss console software reviews in future, we're pointing them out indice clearly on the Screen Test ando page.

Nosedive

galy

реп

lance

elism.

First I would the to say, that I have been a devoted ACE fan, and your mag is so good I don't read any thing else. Good mag, brill mag, sarry crawling again. For the attention of ACE read

er's and ST users: I have just bought that simulator that all mags rate to be good — including ACE — Right Structurer 2, by Subtogic Great can I wait to get home and get up with the birds in the clouds "But homor what shock, what damey, what c****.

Yes for just £49.95 you to can fly it borng scenes with poor graph is and read a 132 paged hand book that you need a degree in air also no map reading to understand how to get from one place to

Yes I know it's not a game but for £49.95 you would at least expect to get your 49.95 pounds worth

All the airports look the same apart from the odd mountain, that when you fly over it, it looks as flat as a pancake on shrove Tuesday Graphics wise I gave Flight Smoula for 24 out of 10.

Piracy again

Piratical rubbish
In reply to the "Reluctant Pirate" I
feel I must pomt out that he is talk.

mg nibbesh. There is absolutely no excuse for Pracy, gread can be your only motive. There are probably ploud to practise who complain about the amount of unemployment. Don't have realise that their ectors, on any scale, are just as likely to make the stutation as bad if not worse that any government?

Remember when the Speccy was the computer, there were hundreds of softwere houses Ware are they nov? Obvously not all of them were put out of business by pirates Some were due to bad management or even just bad games 8th

many companies demise.

I know that three or four unemployed on loop of three million does not seem the much but tell that to your - and I use the word advisedly - victims. I know that I didn't anjoy my spell of unemploy.

I, loo, have spent a large sum of money on my computer, a 520ST, and I am also a manno games player but I will not louch a purated software even when it offered at extremely live prices

offleed at extremely low prices
As an example I have been
waring for Out Alin and Gunstip
since before Christmas, but like
patient, and tropelally as with
other dolayed releases the game
will more than make up for any

amount of the time spent traveling

to my local retailer.

My last word on this subject is.

There is no excuse for piracy.

Devid Pelon Glesgow

Piratical cobblers

Priratical contriers
 Atternating the teles to Doley a
 their? by lan Czacknell in your
 Atternating the linally ranged
 Stry lan, but if it leafly ranged
 Stry lan, but if it you who is the
 plant, but if it you who is the
 plant, but if it you who is the
 plant of Doley if it is not an
 the of Doley
 the of Dol

collected yet and feminism more, frinciple copy and lapse and proceed than they do computer scalesare. Elements which they do computer scalesare Elements with the process of all some time lipse even see, last practically and anyone the bays they happen in a fair Country the process of the many collections and allowed the process with the fair ways of the happens with the fair. The scale of the process with the fair collections and the most process with the fair collections and the most process with the fair collections.

So all the people like Jan.

Cracknel who keep having a go at us, please just nati off and dief

Rowland Turner Charteey

is if just a question of scale? is whether semetime is notif or wrong merely a questron of how much you do it?

Mad bomber

While reading last month's letter page I was suprised to find the let ter form the reluctant pirale. It said. just what I wanted to I read if through agreeing with more or less. everything. Then I read your reply, I couldn't belreve what you were saving so I planned to bomb the place Then I Ihough! I couldn't agree as you are a mag and everything would fall on you like a ton of bricks so I wrote a letter msteed. Here is another tip for the companies - do not release reproduction copies. My Garrison has the men all the same but the game's the same On Probad Witz ard I cannot save thy score - but

Anyway companies - it really is thell bad I cannot see how you keep in production as everyone I



The sound is not too hot as well or crashing—just is 'DING' sort of sound where are the other planes of frees, or buildings I did not know that the narch of our is lite! I shough! if was round, bul just ley fright som—everything is fail the whole borng thing is fail.

Just try the linking World War.

I Ace Sel your sights on the spaghett flying enemy, shoot your guns – no sound? No explosions when you drop the bombs that you can't even see, yet all in all I must be mit affect move.

Now as you can see I am very.

deappointed and so I should be, but should I? Am I expecting too much from thy ST or is it that software programmers are taking the mickey mouse? And I say again for £49.55 DO YOU THINK I AM MOANING??

K.J. Brady London Yes, we think you're moaning. Per haps your problem is that you're and keep yes not the fight smultator land of person. Many of these people that you be exist, and they take no pleasure in sive one air.

the deladed mechanics of flight, and keep eway from sollware which simulates it its just a pity that you bought the most expensive one around.



What a month! the Cowled Crusader casts his eye over Infocom's latest offering, checks out a new release from the company that will soon be bringing you Dungeons and Dragons, and checks out a new competitor to The Bard's Tale. All that PLUS Shades Diary, Pat's Patch, and No Problem! Go for it, wanderers...

SHERLOCK HOLMES

The Riddle of the Crown Jewels

Return to tradition with INFOCOM

DURING the last tew months we've seem many distremt game-styles corrung out of the follocom state lie. We've also seen more products than ever before in such a short space of times. One of these has been excellent - Reynord. Zork - but the others have all had their weak points and suffered in the ratings.

Plundered Hearts – greet new gente but for too easy Nordh Bert – hophly ongrand and occossorably very furny but just a bet too quarky for most British odventures timally. Indoormans which haven been microsed over been yet off they ever will be) – a very disappointing move energy from addresshiring into a press december of the size of the control of the size of the control of the size of the control of the size of the size of the control of the size of the si

Now we get Shericot and bless my hourt if them set nighting new chould it did except on him hatti which were should the did except on him hatti which were should hat only did not not should be the shericon to the shericon

The plot is streight forward enough. As

	RELEASE	вох
C54128	£19 99ck	OUT NOW
IBM PC	£24 99ck	OUT NOW
ATARI ST	£24 990k	MHINENT
AMIGA	£24 59dk	IMMINENT

Doctor Watson you must locate the missing Coown Jewels stolen from the Tower of London The game begins at 5 80cm on a Saturday morning and you must retireve the health by Manday 18 not party.

First your friend Sherlock is of very little help. He amply follows you around throughout most of the game immobing to himself. This is lough becouse some of the puzzles could do with the per-

social chemican of the great detective Yould find yourself revening dying flower-grit-give than the wrong pall and the games up retaining van ous sociated brainless from chill posts - one of the jiewell for example is stuck to the clopper of Big Ben and gelfinapous gluaricians of Markamon Tasses the Tower of London and so on

The game takes place on a relatively small stop internal placetions in 18th centility fondon though there are one or two communities. We prolongue the White Warnd which been amound a list longest than 1 home sources me that one on the 19th century you, could write earliversh change Section Road Turthermore there is ordered to entiry so well known than the control to the placetime of the section of the sectio

while though o'cut in all and in the parameter of the company of t

So not exactly elementary my dis-Plain but not within one of Information conceived productions. There is no cloud that with other companies containing official for a law with some very strate products are reorphised of Information Commission of Insulan unce a sequent Dhan source provides from posted out some new disections but Sole local assessment of the Commission of Insuland comp of them. Judgments: Its welfare is less postally supported.

SYSTEM 91 ENCOUNTERS 88 CHALLENGE 85 LANDSCAPE 84 ACE RATING 899

MIGHT AND MAGIC

Rapid-fire role-play from ACTIVISION

ACTIVISION UK are really knocking out the products these days. They seem to have an duced with this Bard's Tale took-alike tantasy

not to Bard's Tale and especially to Bard's towns plus assorted dungeons tarests and

No other versons planned

C64:128 974 SQ16 IBM PC 624 99dk





1257 - 12 1945 C Not as every as Bard's Tale, but if has better

Where MnM scores however is in its user interface and in the combat system. trating your attack on particular members at

becomes rather loc easy at first since you

can often refreat (which snaps you hack to your start location) or rest (and completely recover) without penalty. Later in the game These options become slightly less accessible but are still there to get you out of tight spots There are a large number of spells to cast and novice players will lind that they can cause autile a bit of damage even at Level 1 unlike the Bard's Tale which doesn't give you the next level of expenence. However the more advanced spells are less impanative

play as the system is trendler improved. call thinking and a number of games within

screen san't as good as Bards Tale and a that those who like Hashy graphics and unusual spells will prefer Bard's Pale those who want an easier life at the lower levels

SYSTEM 88 ENCOUNTERS 78 CHALLENGE 87 LANDSCAPE 79 ACE RATING 825

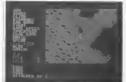
QUESTRON II

Ultima-style gameplay from SSI

THIS new release is significant because it comes from the same company that later this year are to bring us Advanced Dungeons and Dragons Looking of Questron If may give us an idea of their

cept with an overhead view of a landscape with the joystick. Every so often monsters

Also on the map are towns cathedrals tombs and castles as well as the usual dun-



QUESTROY T. the treation world of bandor valued from show

RELEASE BOX C54/129 MAY 88

IBM PC ATARI ST E24 99ds MAY 88 MICA £24 99dk

tive symbols for these teatures and then selecting on enter option changes the disobjective is to defeat the creators of the Evil Book of Magac (which sonically helps you

like this on the market - Wintersoft's Ring of Darkness was one of the first and despite its crude graphics its statitiv sobering to realise that Questron If doesn't after an awful lot

> ple cut and thrust aflour with each ade taking a swine of

> comparison must be with the Ultima games which offer more detailed maps more magac and in general for more tectures throughout dungeon sequences Questron II does have some superb graphics (together and is also very easy to play throughout relying totally on rapid joystick

tackling anything too complex then the game is recommended otherwise stick with

79 ENCOUNTERS 80 66 LANDSCAPE ACE RATING 819

No time for pacifism this month as Sappho the Witch tells how Britain's largest multi-user on-line game copes with the introduction of a new feature - the Fighting Skill attribute. Contact her on MBX 019998149.

When someone mentions gossip they refer to who is benking who, when and where but it seems that everyone has done everything to everyone else already

Actually what has really happened is that there has been yet another change to about that to warry about those intimate moments in the Bridal Suite (aka the BS

This latest alteration to Shades revolves around changes to the light system and the introduction of Fight Skill (FS) All players is then altered by their ability to kill other increases so does your ability to tight better

with one off-shoot of the debate coming to the fore Immorlatty is seen as the arms of achievement - le being able to collect 2 000 points and then keep them tiom a gaggle of to talk about the Badat State) So should wholesale mass murder be allowed?

collecting T (treasure) and solving puzzles

It would be race to report that this debate had been settled once and tor all. We apuld then priorin Her Mayerty's Government that the problems of mankind were solved and all live happaly ever after Unfortunately, this confact between the supporters of action and

ATTENTION PLEASE

If you've ever wondered what it's like taking part in an on-line game with dozens of other human play-ers, then wonder no more. Next month, ACE will bring you a special feature on on-line MUGs in hich Sappho will give you every sing you need to know about this colling area of computer enter

The games, the players, the uests, and all the details you ests, and all the details you ed to log on will all be there

the supporters of pacificism is unlikely to be My own view is that being peaceful

doesn't mean that you can't or shouldn't learn to defend yourself Surely part of the whole adventure is about being able to cope with all contingencies violent ones included? Sappho would never oftack but that never stopped her grabbing an assarlants. weapon and returning it, pointy edge first

My favounte weapon? The cabbage

> You are being battered by a cebbage leaf. You like it so much that you beg for more, completely failing to see the rusty longsword being inserted into the lower portion of your elimentary caral You'll never be able to walk properly again

Then again if that doesn't appeal, you could always scream pitifully and show a clean

NO PROBLEM!

All glory, praise and aderation is due to these valiant adventurers who have asked life, limb. and a Inp to the nearest postbox to deliver linese timely tips for other players. The month, the Pri gum conters honorable Prignm status upon Raymond Trimont, Ian Gay AJ O'Donovan R Marohall

To send in your own bid for immortality, joil your clues clearly on a postcard and post if to The Pilonm, 4 Queen Street Bath, BA1 LEJ

Bored of the Ringe Riders - play hide and don't seek Borrowed Time

Spy a meeting in doctor's to slop a fight at the cat park Bally Hoo A tancy dress party the meeting is not - but it

could get you quite a lot. Lions that cause trouble need a whipping, but don't be a stool

Red and vellow could save your hide - in the repair room they will slide

Plato is a problem concerning a droid so maybe

you could use Floyd Maros, maros on the wall is there any plalmum

to be found at all? What was once hol can help with the cold probive of explosives

Pienettali Microbes fall for hot lasers

Let Floyd do the dirty work in the biochambers.

Wiehbunger A stone in the head is better than a hole in the

Keryssiz - Queen of Diemonde The password to part 2 is ORLA

Say Omithis Osliania to slop hawk attacking Examine ties open deck, and go like Then down and then north. Say to Hormit, Hello' Drop skulicharm on to pentacle and it will lurn into a pay of doubleswords

Need to enter the castle? Rounte Tyrona with Dragon Zeida and halp will be at hand.

Kobyashi Naru To get the solance activate it and pull, to get out

of the pill climb on the wall

To calch the bus, raise sign, then raise hand To get past line crocodile step on it

Rigel's Revenge Lost in the desert? Retrace your steps

To get a uniform from the bungalow Throw some subble at the security light

Redhowk Give the vase to the curafor.

The welles will save you from a shock Techno can be defeated with the magnet

Sell Machiel and Fireworks - both useless

Sell valuable objects - tusk crown, doubloon, jowel etc. Buy a rabbit look and rub it to earn luck

To get the mmx, erase snow tracks (to earth compassion) and wait for the hunter to pass by Kiss the Unicoins hern for luck and then fevilled unicorn and saddle (to earn compassion) Say lightning to rockface to gain access to light-

STRATEGIC PLUS SOFTWARE

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BRAVE NEW PAT'S WORLDS

Wot no Ultima reviews? Where are they Pilgnm person??

My apologies fellow Pilgs but dan't despost - we have good reason for our actions

First we received two more new fantosses this month (Questron E and Might a games Second desprte the onamal at the latest and probably the greatest of

Every dark cloud has a silver iming are planning to make this section even BIG GER and BETTER from now on so that we wan't suffer so badly from space problems in the future it's no coincidence that we received two new taxtasy role-playing We've therefore decided to EXPAND the size

rt it's going to be a winner

ing in the magazine next month a special riversy for those sending it in with some ton

PATCH

Adventures often contain non player characters and usually they're as stato as the scenery. To add a bit of spice to your game, why not have dangerous characters patrolling the playing area on a regular beat which the player must work out in order to aword dan

ger? The following GAC routine does just that and works by using an object (no 50) as a character and moving that object from room to foom as the game progresses. Also needed is a counter (well use counter 100) a marker (marker 100) to check the progress of the sive where the character can be. We'll start the character off in room 4 send it through back again and again, and again

 Line 1 loads counter 100 with the charac ters start room and marker 100 shows the direction of travel. This should go m your intraisation line unless the patrol begins after another event (a door opened or an alarm sat off perhaps) - then make the 1 part of the action for that event instead

 Line 2 is acted on it the character is going. un the room numbers but not at the end yet Line 3 is done when the character reaches the highest numbered room on its beat it.

resets the marker to show the direction of movement has changed and reduces counter

Line 4 is the reverse of line 2 and line 5 the reverse of the 3

. Line 6 smaly looks up the number it counter 100, treats this as the new location of the character object, and moves the object to

There's nothing to stop you having several characters in your game each with separate or possibly intersecting heats. In tact you could create an interesting maze situation and make the player availed a whole host of enethe player controlling the time they start thur

INITIALISATION LINE (part of it)

HIGH PRIORITY

Beyond Zork is definitely the first game where you're on Cloud 9 for ages. When you seatch the treasure at the end of the game to find the Coconat (Fanlanes) you then get the best end Rob Marshall Congleton

Yessir BZ is a scorcher Elid you know that role-playing is now the lergest growth area on the States' adventure scene? It's success is bound to influence other intere traditional adventure software houses

Whitst the Pilgram may consider D&D to be the rote-playing game par excellence. I have a did forest opinion. It's rather a limited game in that the only way players can gain expenence points is through combat. This can be damaging to the game, with players acting totally out of character to go up a level

Other games that do not have these retrictions placed upon them are far better. Two of these are Wathammer Fantasy Roleplay and Stormbunger. They both use different system of advancement which produce characters shaped more by the player and less by rulebook

from an apprentice level to mastership as in real life this doesn't happen overnight and does encouraging better role-playing. The system used by Stormbringer, although different, has sim-

DAD players may disagree with what I've said about the game, but before they criticise I thank they should try the systems t have mentioned - they will tind them interfely better

Thanks for these interesting points, Simon Actually, I am well aware of the games you memon, but did in't include them in the article, since it was primarily about computer games. Luped D&D as an iffustration simply because it is well known amongst non-role players. We should also give it credit for its role in raising public interest in role-playing games in general

Want to know the best games to run on your micro? Want all the facts and figures on the latest hardware? Look no further - it's all in the Ace Pink Pages. You'll also find our regular Reader to Reader section, plus this month's brain-teasers in the Random Access pages.

ACE RECOMMENDED SOFTWARE

ARCADE ADVENTURES

These games usually give the player a joystick controlled character with

AIRRALL

ant in

meet

Mosdeal @ Alan ST \$24 95dk Multi-coloured three-dimensional arcada

stranture that ower cometting to the of graphic delief and presentation. You as the antheil in question must negotiate diredus and rooms full of venous obstacles - all spelling instent death. An outstanding rendston of a popular garre-

DUNGEOH MASTER Minorart & Alam ST P24 90/6 The faciniting arcade adventure cum

EAGLE'S HEST Pindore @ Arrige £19 95dk @ Ataxi ST

This is one of the better Gauctier clones

relating Rayour of the arcade adventure basis style of game you won't be disso-

pointed with Eagle a Nept

HEAD OVER HEELS Coren ● Spectrum £7.95cm ● €84 £8.95cm £12.95dr● Amelinal £8.95cm £14 95dk ● MSX E8 95cs ● IBM PC

3D arploration reaches its peak with this characters - Head and Heels - as you seerch for the province that will free the galaxy. The puzzles can get very difficult indead and you'll often have to split Head and Heels up to use their different ospabilities. The game a 300 locators are welly drawn and the emmeton is

excellent throughout A real classic MAGIC KNIGHT TRILOGY Mastertronic . Knight 5/me Spectrum

\$2 99cs Ametrad \$2 99cs . Spelibound Spectrum £2.99cs Ametrad £2.99cs £54 \$2.99cs • Stormburger Spectrum

This Inlogy is a sense of menu-drivan arrade adventures which as well as all the expected running and jumping. have é complex system of interection between

some Cealla of karn in Krught Tyrne you have to find a way back in time ahe: while in Stormbroper the final part we in two one part good tha other evil. You can't kill yourself no the only solution is to merge the two halves. But how? Lots of action plenty of thought and good graphics make all time writtens

SIMULATIONS

Games that put you at the contols. Whether you're flying helicopters or aeroplanes, or steering bobsleighs, simulation games can become very involving

BDBSLEIGH

Digital Interpreton @ Spectrum 59 95cs ♠ Amstrad £9 99cs £14 95ds.

Bobsleph is a highly competent and addictive serviceon with more than a lelie stretagy. Have you got the stamme to season? Remember apprisons don't back losers. Bobeingth is evariable for tha C64, but it's a poor game compared to

CHUCK YEAGER'S ADVANCED FLIGHT TRAINER

Electronic Arts: ● C84 E9 95cs £16 95cb ■ PC €24 95/6

Chuck Yengur's fight trainer takes the Right simulator parks a step further by including a training option. Chuck will guide the novice through such dilliquis moves as aleron loops and rolls. With so

FLIGHT

SIMULATOR 2 Sith-Logic • Atan ST £41 95dk • Aroga

£49 95dk ◆ IBM PC £49 95dk

The venerable pediather of fight smulawhich all others are judged. Although it charts a's difficult to get hold of in the UK If you have the technology this is an

assential purchase GUNSHIP

Micrograma • PC 534 95dk

Excellent graphics invalving simulation the better PC parties. Plicking your copier ground in order to zep various gooks may

LEADERBOARD

Accest/US Gald • Spectrum £8 99 • CSI £9 99cs £14 99ck Amstrad 19 99ct £14 19ds @ Alari ST £19 99ds If you only buy one golf emulation for your polection make mura its fundar board its heed and shoulders above averything also on the pleywhiley and realism stakes easy to get little with courses. Once you've mastered those on

Leaderboard and then World Class Leaderboard (based on real courses,

risumed in the an difficult on possible) TOMAHAWK

Digital Integration ● Spectrum E9 95cs ● American CA Rica, \$14 95th, . Atan ST

One of the all-time great flight pimulators Tomahewik also has a strong combat edos lo c Pleng a US Army Apache halcopiar is a complex business and the game s realistic controls make no opnose. sons for learner piets. Choose one of the to affect ground targets, while keeping a seather eye open for enemy saturals Landscape, buildings and vehicles are all



STRATEGY GAMES

For megalomaniacs. The games listed in this section will really test your mettle on the battlefield

UMS

BALANCE OF

POWER Mindscape/Almorsoft @ Armge 126 956 Atani ST £26 95dk ● IBM PC £21 95dk

 Mac €29 95ds Delindary strategy game for 16-batiers. The

player takes the role of one of the superon a global scale. This can be achieved in a number of ways including supplying Russian drawn (depending on which side you're playing). It a complex, involving and is difficult to play in ten minuta carsions Absorbing staff that gives an incight into the devicus world of geopolitics

DIPLOMACY

Leeune Genue @ D64 E12 95cs \$14 05th • PC \$24 95th The grand old man of nexty negetiation

computers and how! The game cut hasthe up to seven players and it's an engrossing and mady addictive game

Rambrd ◆ Atan ST £24 R5ds ◆ IBM PC £24 95ck Maontosh £34 95dk Amina 524 95dk

Paribrid & Universal Military Simulator III

VULCAN

GCS · Spectrum £9 95cs · Ametrad

An elegant, simple and ingenious wargame Vulcan covers the Tunsten campaign of 1942-43. A huge playing game an improvement over the same author's parier works Ambern and Desart Rets. Vulcan is first efficient and

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Overancen from Advanced the councey in 65 July 18th best vession of the classic Sheekood. Simple in concept the player control is shall all the base of the access which play like and eight. The object is to keep a small bell in play bouncing it off the bat to destry formations of bricks in the large half of the screen Eliminate all the bricks and move on to the need of 33 acreens. Clever artis, features contributa acreens. Clever artis, features contributa. to the addictiveness. As a faithful con-opcenters on Adarond cornas out top but for a different skert on the same theme and some nifty mand, by ASL is impact which also builds up the difficulty levels flore-gradually.

BOUNDER

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A great erracie boursen-errop, and very additioner to 20 ya gode a ball as if bourses from one platform to another, high above his vertically sociality listed occurs Land on marked spasses end you can step allth foreign on gain a imperer borrus. Fell in a plot oit hat and oit has can step allth foreign on gain and public of the platform of the plat

BUBBLE BOBBLE

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A non-slep action driving game that will keep evan the most expect. Our Rum face busy for a long white. Collect the strail bottuces in the effectly for complete the term standing occurse instantity playable and highly addictive. Ruggly Roy should be on any secret fain's shupping let.

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Graphically superb horizontally scrotting about-mast in which you run thick and upon your way along a phant's surface before greatly along a phant's surface before greatly at about defence. A goin and a mostile fauchtail are used to bhat this loss but if though are all too bough than you can grab an excelled for interpretable graphic graphic and the government of the surface protection and the government.

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£1 99cs @ Amstred £1.59cs Terrefyingly sensitive controls and a large

halping of mul-life physics make this budthrough the caverns of an enemy-held destroy hosble gun banets without crashone one the funnel walls. Tough enough as it is but then you've got to make the

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The game besed on the hill TV series/comiciplastic toy #15 e side-on line dash from start to finely with a mulatude of obstacles to avoid along the way playable loo

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lerge structures Great metalic-looking shoulders above the opposition A game excellent Paredroxi

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QUEDEX

In this impressively challenging pame you must steep a metablic bed through ten deferred screens of imman, browned and obtacles all writes a sail bris self should sample same concept has a host of solded features to make if participating plationing you can carry you can carry you can carry to the sail screen, for example and tooling the sail self specified you will be facilitied specified and sold you can carry the sail self specified specified specified specified and sold specified spec

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C64 E9 99cs £14 99dk Ametrad £9 99cs £14 99dk Tremendous shall street your spinning

immentation aum aver you immentation in (op over tough bestacies and celled jewals against a feedeh time tent. The game tandscape or a visal system of call walks mings, towers, and trampolines tuntounded by lethal drops – and NO safety rails. Floor switches activate little and bridge gaps but topping tham in this and bridge gaps but topping tham in this said bridge gaps but topping tham in this said. right order can be harder than it looks. A few bard guys and a fot of nice touches, but the exploration's the riving

TAU CETI/ACADEMY

CRI. © Spectrum ES 95cs © CS4 ES 95cs E14 95ch. © Americal Di 85cs E14 95ch. © Alan STEIP 95ch. © Ampa EIS 95ch. Flight: simulatorishical immup and its sequel which are both increality amooth and wall put together. The siteration to detail is Impeccable as you set off or har-reasing mesons in a space cader. In Academy you get to deep your ear.

WIZBALL

Ocean © Spectrum E7 95cs © Americal C8 95cs E12 95ch © C84 E8 95cs E14 95dk

A comparing and comparal ball game in which you become the websit and must set out to conquer the toolsou creatured which see intent on elimentary the spectrum and recording the intendeape gave and drab Controlling the websit is great fur man analysis than one of the most populatio games to trave appeared for a long-time.



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THE BARD'S TALE Electronic Arts © C84 £14 95ds © Amagai £24 95ds © Atan ST £24 95ds © 1886

Build a penty of up to bix adventurers and sally forth through the city in search of theapers combat and time. Your chuse, for develops in separance during play and the lask trivolved is prefly intereste—don't sepect to finally it wide a month or five sepect to finally it wide a month or five

Alan ST 024 990s, tribocents alternot for muedle in on the relephaying medial is a great success. Locate the lebulous Coconst at Quender is a game that combines the with organizing of one of the world's meet orga-

nal software companies with state-of-tha art parsing and gameplay. Text-only, but what on-screen mapping facility. **GUILD OF THIEVES**

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nghl)? yours puzzingly Browze

Il didn't take Otto long to find the answers, but can you? Also, can you write a simple listing to get your micro to provide you with the

well, you're laughing aren't you?

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lace up in a row end am now about to move them in the following sense of operations.

Exchange the positions of the two cards either side of the abs
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AN OOPS! AT THE RACES

Probabilities are limity things as any mathemati man will tell you. A distrate s been raging in the pages of Computer Guardian recently over a probability problem involving gold and silver coins, and there's no sign of a solution the readers nan agree on

Classic probability bafflers are ten a penny How about the pie restaurant where Apple is probably botter than Blueberry, Blueberry's probably better Ihan Cherry bul when Apple and Cherry are all that's available Cherry is the best bit. It's

possible, honest?

Not satisfied? Then my this one you buy a pank of cards, and a livend bets you £10 that along with all the black and red cards you'll find all least one green one. You start lummy the cards over and each red or black card you lurn makes you leel safer because it's one less that could have turned out green. Then you get to a blue card. Now that's shill another card that could have been green and isn't, so it's got to make your chances of wirring even better - hasn't it? Like ! say probabilities are Irinky livings

All of which is by way of an excuse for an OOPSI or two m our Dead Cert feature Issl month. The biggie was (probably) the claim made for D'Alembert's Method that it could increase a gambler's returns on an oven or better chance

Firstly the system seems to do worse than a fixed bet once your nhances get much above evens, and secondly there's a strong school of thought in the offices here that no betting system can actually increase your returns in the long run anyway A classic rase in point is the Martingale system, where you bet double your stake if you lose and return to your ongmal stake if you win On paper il looks like a sure-fire wanter provided d your nin on a win, you'll make a profit of

you lost.

In practice gamblers run out of credit or reach line house limit so they can't always hang on for that final win - and when that happens to the Martingale better he goes down for a bundler We're not quite sure how D'Alembert's method shapes up here, so we'd suggest you consult your nearest professor of applicable maths before usmo il in ancer @

MID-AIR COLLISION

If you thought the nomputing business was full of numbers and letters just waiting to nonfuse the uninstalled you should lify the aircraft industry. If it ran't the ASRAAMs slung underreath your YF 22A ATF It's the RWR on your GR Mk1, or even the HUD on your F 15 Small wonder then that poor old EA (not an aircraft all all but software limit Electronic Arts) should get mixed up on one of their interceptor press releases. The ohisopromising combal flight sim (check it out in previews on p18, if you heven't already) lets you take to the skies m an F 16 Falcon or F-18 Hor net Or an F-16 Homel Indeed Or even an F 18 Falcon Look, thore are these two American planes and you man fly either of them, nght?



OLLIE, FAWN AND...LANCE?

Entertainment as an instrument of US foreign polis a bil over the top You thought Raid over Moscow was in poor laste? You Thought Green Beref was e bil out of line? Well how about Kon ami's latest Nimtendo cartridge for the American market. Il looks like Gryzov at sounds like Gryzov and it's even gol the same box artwork as Gryzon - but it's actuelly nalled Contra Does it have afrecity sequences, we ask purselves? Do you have to get a bill through Congress before you can pink up extra weapons? Will the 62nd Air borne save your bacon when you get in a fix? We think the public should be told.

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